The Science Education program is available for students who plan to teach middle or high school science. Science Education students gain real-world experience in the classroom through student teaching or on-the-job experiences at area schools. Students who successfully complete the program requirements also meet the Wisconsin teacher certification requirements for teaching science subject areas in those grades. Students at this level of certification may add the following licenses while pursuing or after obtaining their Science licensure as their initial certification:

- Bilingual
- English as a Second Language
- World Languages

### Requirements

**University General Education Requirements (GER)**

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### Program Admission Requirements (p. 2)

**Program Core**

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### GER Distribution Requirements

- **Arts**
- **Humanities**
- **Social Sciences**
- **Natural Sciences**

### GER Competency Requirements

- **Oral and Written Communication, Part A**
- **Oral and Written Communication, Part B**
- **Quantitative Literacy, Part A**
- **Quantitative Literacy, Part B**
- **Foreign Language**
History and Philosophy of Science (choose one)  2-3

PHILOS 213  Introduction to the Philosophy of Science (GER-HU)  
PHILOS 324  Philosophy of Science  
PHILOS 335  Philosophy of Biology  
PHILOS 520  Philosophy of the Natural Sciences  
CHEM 502  Development of Modern Chemistry  

Total Credits: 20-25

Program may allow fulfillment of Act 31 with a 1-day workshop.

Content Area
The selection of at least one major and one minor (highly suggested) should be made in consultation with a faculty advisor prior to applying for admission to the School of Education. Contact your faculty advisor for the "MACSTEP Program Packet," which includes course lists and specific details regarding the majors and minors.

Code  Title  Credits

Majors (select at least one)

Biology

Broad Field Science  3

Chemistry

Earth and Space Science

Environmental Studies

Life and Environmental Science

Physical Science

Physics

Minors (selecting one is highly suggested)

Biology

Earth and Space Science

Chemistry

Physics

The Broad Field Science major consists of 54 credits in science, including:
- 14 credits in each of two of the following: biology, chemistry, earth, and physics
- 8 credits in each of the remaining science areas
- Electives to be selected in consultation with a faculty advisor

Majors can earn a certification in another subject (biology, chemistry, physics, and earth and space science) if they have 15 credits in that subject area.

Professional Education Requirements

MACSTEP Sequence - Milwaukee Area Collaborative Secondary Science (and Math) Teacher Education Program. Formal admission to the School of Education required. A grade of C or better must be met for all professional requirements, including student teaching.

Code  Title  Credits

Summer

CURRINS 510  Cooperative Strategies for Pre and Early Adolescents  2
CURRINS 518  Science Methods I: Middle/Secondary Methods and Fieldwork  3
CURRINS 545  Reading in the Content Areas: Middle, Junior, and Senior High School  3

CURRINS 629  Change and Change Strategies in Education  3
ED PSY 541  Assessment in Science and Math I  1

Fall

CURRINS 510  Cooperative Strategies for Pre and Early Adolescents  1
CURRINS 516  Field Work in Middle School  3
CURRINS 519  Science Methods II: Middle/Secondary Methods and Fieldwork  6
ED PSY 542  Assessment in Science and Math II  1
EXCEDUC 536  Inclusion for Secondary Science and Math Educators  1
EXCEDUC 537  Math and Science Methods for All Learners  1

Spring

ED PSY 543  Assessment in Science and Math III  1
EXCEDUC 538  Teaching Math and Science to All Learners  1

Student Teaching (Spring)  4
CURRINS 427  Student Teaching in Science  10-12

Total Credits: 37-39

Additional Requirements for Graduation

- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Satisfactory completion of a minimum 128 credits;
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee; and
- Completion of edTPA (Teacher Performance Assessment) required for certification.

Advance to Major

Program Admission Requirements

Application to the Science Education program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: http://uwm.edu/education/academics/science/.

- Pre-Professional Skills Test: Passing scores on one of the following exams: Praxis I, CORE, ACT, SAT, or GRE. ACT, SAT, and GRE scores must be within five years of admission term to academic program. Please see your academic advisor for additional information.
- English Composition: Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 or an equivalent with a grade of C or better.
- Mathematics Skills: Achieve a placement level of 30 or higher on the Math Placement Test, or complete MATH 103, MATH 105, MATH 175, or an equivalent with a grade of C or better.
- Completion of COMMUN 103, with a grade of C or better. Note: Completion of this course also fulfills part of the Humanities GER requirement.
To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.5;
- A minimum of 2.75 in all your science content area and professional education courses;
- Passing scores reflected on your transcript for the Praxis II exam: General Science: Content Knowledge #10435;
- Removal of all F or I (incompletes) grades;
- TB test results submitted to the Office of Clinical Experiences; and
- Criminal Background Check submitted to the Office of Clinical Experiences;

**Undergraduate Advising**

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

**How to Prepare for an Advising Meeting**

- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

**Benchmarks**

**Student Teaching**

Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website at uwm.edu/education/academics/clinical-experiences/ (http://uwm.edu/education/academics/clinical-experiences).

To be approved for placement, you must meet the following criteria:

- Completion of CURRINS 328, Introduction to teaching Science in Middle and High School, with a grade of C or better.
- A 2.5 minimum cumulative GPA in all UWM and transfer courses at the time of admission application.
- A 2.75 cumulative GPA in all Science content courses.
- A minimum of 58 credits (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.
- Meeting with faculty advisor to review admission application. Faculty signature required on application.

**Walk-In Hours**

Walk-in advising is for current School of Education students and is limited to 10-15 minutes. Offered weekly on Thursday from 1-4 PM, these opportunities allow for you to meet briefly with your assigned academic advisor, or an advisor familiar with your program of study.

**Transfer Student Not Yet Enrolled at UWM?**

If you are attending a different college or university and would like to transfer to UWM to study in the School of Education and have questions, please connect with our Transfer Advisor, Emilee Schultz, at (414) 229-6019 or emilee@uwm.edu.

**Graduate Advising**

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the People Directory (https://uwm.edu/education/people). Your faculty advisor will be listed in your PAWS account. If you are unsure who your advisor is, please contact Graduate Program Admissions Specialist Allison Hochmuth (https://uwm.edu/education/people/hochmuth-allison).

**Honors in the Department of Teaching and Learning**

Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

**Honors in the School of Education**

**Dean’s Honor List**

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

**Honors Degree and Honors Degree with Thesis**

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (http://catalog.uwm.edu/opportunities-resources/honors-college) section of this site.

**Commencement Honors**

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

**Final Honors**

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

Enderis Hall, Room 209
(414) 229-4721
seeinfo@uwm.edu