

EDUCATION, BS: MATHEMATICS EDUCATION

The Mathematics Education Program is available for students who plan to teach mathematics in grades 4-12 middle/high school. Mathematics Program students gain real world experience in the classroom through student teaching or on-the-job experiences at area schools. Students who satisfactorily complete the program requirements also meet the Wisconsin teacher certification requirements for teaching mathematics subject areas in those grades.

Students at this level of certification may add the following licenses while pursuing or after obtaining their Mathematics licensure as their initial certification:

- Bilingual
- English as a Second Language
- World Languages

Requirements

General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (<https://catalog.uwm.edu/policies/undergraduate-policies/#generaleducationtext>) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

Students must meet certain criteria and apply to their specific licensure program in addition to admission to UWM. Please see information about minimum credits, GPA, and other requirements at Advance to Professional Sequence. (p. 2)

Program Core

Code	Title	Credits
COMMUN 103	Public Speaking (GER-HU, fulfilled prior to program admission)	3
CURRINS 300	Introduction to Teaching: Colloquium and Fieldwork	3
ED PSY 330	Introduction to Learning and Development	3
Total Credits		9

Content Area

Students must earn a minimum GPA of 3.0 in all mathematics content area courses.

Code	Title	Credits
MATH 231	Calculus and Analytic Geometry I (QL-B, GER-NS)	4
or MATH 221	Honors Calculus I	
MATH 232	Calculus and Analytic Geometry II	4
or MATH 222	Honors Calculus II	
MATH 240	Matrices and Applications	3
or MATH 234	Linear Algebra and Differential Equations	

MATH 341	Seminar: Introduction to the Language and Practice of Mathematics	3
MATH 431	Modern Algebra with Applications	3
MATH 451	Axiomatic Geometry	3
MATH 575	High School Mathematics from an Advanced Viewpoint	3
MTHSTAT 215	Elementary Statistical Analysis	3
Any 300-level or above MATH course or MATH 233; suggested courses:		3-4
MATH 233	Calculus and Analytic Geometry III	
MATH 305	Introduction to Mathematical and Computational Modeling	
or MATH 405	Mathematical Models and Applications	
MATH 313	Linear Programming and Optimization	
or MATH 315	Mathematical Programming and Optimization	
MATH 320	Introduction to Differential Equations	
MATH 325	Vector Analysis	
MATH 405	Mathematical Models and Applications	
MATH 413	Introduction to Numerical Analysis	
MATH 417	Computational Linear Algebra	
MATH 523	Advanced Calculus I	
MATH 535	Linear Algebra	

Total Credits **29-30**

Professional Sequence

MACSTEP Sequence - Milwaukee Area Collaborative Secondary Science (and Math) Teacher Education Program. Advancement to the professional sequence required. A grade of C or better must be earned in all professional sequence coursework, including student teaching.

Students must earn a minimum 2.75 GPA in all professional education courses.

Code	Title	Credits
Summer		
CURRINS 332	Teaching of Mathematics 3	3
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language	3
Fall		
CURRINS 516	Field Work in Middle School	3
CURRINS 532	Teaching of Mathematics: Secondary	3
CURRINS 541	Principles and Methods of Teaching ESL	3
EXCEDUC 601	Behavioral Supports	3
Spring		
Student Teaching (Spring) †		
Take 12 credits:		12
CURRINS 431	Student Teaching in Mathematics	
CURRINS 432	Student Teaching Mathematics Seminar	3
Total Credits		33

‡ Students must complete an application to request/be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 2) for details.

Requirements for Graduation (<https://catalog.uwm.edu/policies/undergraduate-policies/#academicpolicies>)

For information on credit, GPA, and other requirements for graduation, see UWM Degree Requirements (<https://catalog.uwm.edu/policies/undergraduate-policies/>).

Post-Baccalaureate Pathway

Students pursuing the post-baccalaureate pathway take the same content and professional education requirements as those in the undergraduate pathway.

Additional Requirements for Certification

- Successfully complete the content knowledge requirement for your program through one of the following:
 - Minimum 3.0 GPA in content coursework.
 - Passing score on the Praxis Subject Assessment Exam: Mathematics: Content Knowledge.
- Earn a minimum cumulative GPA of 2.75 in all UWM and transfer courses.
- Demonstrate successful completion of the Pedagogical Knowledge Assessment (PKA).
- Meet all applicable Wisconsin statutory and testing requirements.
- Complete approved coursework in the history, culture, and tribal sovereignty of American Indian tribes and bands located in Wisconsin, met through one of the following:

Code	Title	Credits
ANTHRO 213	American Indian Peoples of Wisconsin (GER-CD, GER-SS)	3
ENGLISH 276	Introduction to American Indian Literature: (topic: History, Literature & Sovereignty of Wisconsin Tribes (GER-CD, GER-HU)	3
ACT 31:	History, Culture and Sovereignty Rights of Wisconsin Indians Workshop	
	Or an approved equivalent	

Advance to Major

Advance to Professional Sequence

Advancement to the Mathematics Education Program Professional Sequence requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website (<http://uwm.edu/education/academics/mathematics/>).

- **Satisfaction of QL-A, QL-B, OWC-A, and OWC-B.**
- **Completion of CURRINS 300, Introduction to Teaching, with a grade of C or better.**
- **Completion of COMMUN 103 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 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 advisor** to begin program.
- For post-baccalaureate candidates, a bachelor's degree from an accredited college or university.

Criminal Background Check

Criminal Background Check (CBC). For all students, a background check shall be completed no more than 6 months prior to the date of admission (advance to professional sequence) into the educator preparation program. The background check shall include a review of criminal conduct at the state and federal levels.

Benchmarks

Student Teaching

Students must complete an application to request/be assigned a student teaching placement. Deadlines for submission are posted by the Office of Clinical Experiences. (<http://uwm.edu/education/academics/clinical-experiences/>)

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

- Be admitted to the Professional Sequence.
- Completion of all required coursework.
- Cumulative GPA of a minimum 2.75.
- A minimum of 2.75 in all your professional sequence courses.
- Content Knowledge Requirement: A minimum of 3.0 in all your mathematics content used for certification or passing score on the Praxis II General Mathematics Content Test.
- C or better in all mathematics content being used for certification.
- C or better in all professional sequence courses.
- TB test results submitted to the Office of Clinical Experiences.
- Passing Criminal Background Check submitted to the Office of Clinical Experiences.

Student Advising and Support Services

At the College of Community Engagement and Professions (CCEP), your success is our priority. Our dedicated student advising and support services team is here to help you navigate your academic journey, from your first semester through graduation.

Whether you're exploring majors, planning your course schedule, or preparing for your career, our advisors offer personalized guidance tailored to your goals. You'll also find a range of support services designed to help you thrive—academically, personally, and professionally. We're committed to providing a welcoming, inclusive environment where every student feels seen, supported, and empowered to succeed.

For more information, visit the [CCEP Student Advising & Support Services website](https://uwm.edu/community-engagement-professions/about/student-advising-support-services/) (<https://uwm.edu/community-engagement-professions/about/student-advising-support-services/>).

Email: ccep-advising@uwm.edu | **Phone:** 414-229-4707

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 Directory

(<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

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.

College of Community Engagement and Professions 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 College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (<https://catalog.uwm.edu/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. 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.