

MATHEMATICS, CERTIFICATE

The primary purpose of the Mathematics certificate is to serve those students who wish to enhance their content knowledge in mathematics but are unable to complete the requirements of a second major.

HOW TO GET IN

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Students must meet with a math advisor in order to declare and to discuss course selection. Math advisor information is provided at the math advising page (<https://math.wisc.edu/undergraduate/advising/#cert>).

Students pursuing the Applied Mathematics, Engineering, and Physics degree program (BS-AMEP) are not eligible to declare the Mathematics certificate.

Students declared in the Mathematics major are not eligible to declare the Mathematics certificate.

REQUIREMENTS

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The certificate requires a minimum of 12 credits. Note that **at most one** course from each of the following groupings may be used to fulfill the minimum credit requirement:

- Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 345, MATH 375),
- Intro Differential Equations (MATH 319, MATH 320, MATH 376), and
- Intro Probability (MATH/STAT 309, MATH 331, MATH/STAT 431).

The above groups are not required for the certificate. If you choose to take a course in a group, only that one from the group will count toward the certificate requirements.

Code	Title	Credits
Requirements ^{1, 2, 3}		
3 credits MATH 400–699		3
9 credits from MATH 307–699		9
Total Credits		12

FOOTNOTES

¹ Excluding MATH/CURRIC 471.

² At most one (1) course each from these groups may apply:

- Linear Algebra: MATH 320, MATH 340, MATH 341, MATH 345, MATH 375
- Differential Equations: MATH 319, MATH 320, MATH 376
- Probability: MATH/STAT 309, MATH 331, MATH/STAT 431

³ MATH 390 will only count once toward the certificate requirements.

RESIDENCE & QUALITY OF WORK

- At least 9 certificate credits must be completed in residence.
- Minimum 2.000 GPA on all certificate courses.

UNDERGRADUATE/SPECIAL STUDENT CERTIFICATES

This certificate is intended to be completed in the context of an undergraduate degree and for those seeking this certificate that is preferred. For students who have substantially completed this certificate at UW–Madison and may need one or two courses to complete the certificate, they may do so immediately after completion of the bachelor's degree by enrolling in the course as a University Special (nondegree) student. The certificate must be completed within a year of completion of the bachelor's degree. Students should keep in mind that University Special students have the last registration priority and that may limit availability of desired courses. Financial aid is not available when enrolled as a University Special student to complete an undergraduate certificate.

LEARNING OUTCOMES

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1. State, explain, and apply the principal results, definitions, and theorems of a wide collection of mathematical areas.
2. Acquire a diverse set of skills and strategies in mathematical reasoning/problem solving.
3. Use mathematics to model and analyze problems in other disciplines.

ADVISING AND CAREERS

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Students who are interested in the Mathematics certificate should visit with the Mathematics certificate advisor or a Mathematics faculty advisor. Information about current advisor availability is on the Math advising page (<https://www.math.wisc.edu/undergraduate/advising/>).

For advice on college algebra, pre-calculus, and calculus, see the placement advising pages (<https://www.math.wisc.edu/undergraduate/placement/>) of the department.

SUCCESSWORKS

SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps you turn the academic skills learned in your classes into a fulfilling life, guiding you every step of the way to securing jobs, internships, or admission to graduate school.

Through one-on-one career advising, events, and resources, you can explore career options, build valuable internship and research experience, and connect with supportive alumni and employers who open doors of opportunity.

- What you can do with your major (<https://successworks.wisc.edu/what-you-can-do-with-your-major/>) (Major Skills & Outcomes Sheets)
- Make a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)

- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
- Try “Jobs, Internships, & How to Get Them,” (<https://successworks.wisc.edu/canvas/>) an interactive guide in Canvas for enrolled UW–Madison students