

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

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 (<http://www.math.wisc.edu/undergraduate/advising/>).

REQUIREMENTS

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

Footnotes

¹ Excluding MATH/CURRIC 471.

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

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

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 (at least 12 credits) 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

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

ADVISING

Students who are interested in the mathematics certificate program should visit a faculty advisor. Doing the fall and spring semesters several faculty advisors have regular drop-in office hours. The current list of advisors and the schedule of the office hours can be found at the math advising page (<https://www.math.wisc.edu/undergraduate/advising/>). During the winter break and the summer semester there is no drop-in advising, students should contact one of the advisors to set up an appointment.

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

PEOPLE

PROFESSORS:

Anderson, David F (Undergraduate Director)
 Angenent, Sigurd B.
 Arinkin, Dima
 Caldararu, Andrei
 Craciun, Gheorghe
 Denisov, Sergey
 Ellenberg, Jordan
 Feldman, Mikhail
 Gong, Xianghong
 Kent, Autumn Exum
 Lempp, Steffen
 Mari-Beffa, Gloria
 Maxim, Laurentiu
 Miller, Joseph S
 Paul, Sean T
 Poltoratski, Alexei
 Roch, Sebastien
 Seeger, Andreas
 Seppalainen, Timo (Chair)
 Smith, Leslie M.
 Stechmann, Sam
 Street, Brian Thomas
 Terwilliger, Paul M.
 Thiffeault, Jean-Luc
 Valko, Benedek (Associate Chair)
 Waleffe, Fabian
 Yang, Tonghai

ASSOCIATE PROFESSORS:

Andrews, Uri
 Dymarz, Tullia Maria
 Erman, Daniel M
 Gorin, Vadim
 Gurevich, Shamgar
 Ifrim, Mihaela
 Kim, Chanwoo
 Li, Qin

Marshall, Simon Lindsay
Soskova, Mariya
Spagnolie, Saverio
Stovall, Betsy (Graduate Director)
Tran, Hung Vinh

ASSISTANT PROFESSORS:

Chen, Gao
Chen, Nan
Cochran, Amy
Guo, Shaoming
Kemeny, Michael L J
Rodriguez, Jose Israel
Shen, Hao
Wang, Botong
Zepeda-Nunez, Leonardo
Shankar, Ananth
Shcherbyna, Tetyana
Shen, Hao
Waldron, Alex
Wu, Chenxi
Zepeda-Nunez, Leonardo
Zimmer, Andrew

ACADEMIC STAFF:

Benguria Depassier, Soledad (Calculus Coordinator)
Grizzard, Robert (Associate Director for Instructional Programs)
Hanhart, Alexander (Associate Undergraduate Director)
Kwon, Oh Hoon (Math Education Coordinator)
Lindsey, Melissa (Associate Director for Instructional Support)
Sukiennik, Justin (Precalculus Coordinator and WisCel)
Rineck, Leah (Math Learning Center Director)

ENROLLMENT COORDINATOR:

Kyle Martinez