Mathematics

Nakhle Asmar, Chair
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Faculty


Associate Professor C. Chindris**, A. Harcharras**, C. Morpurgo**, J. Segert*, D. T. Weston**

Assistant Professor P. Pivovarov**, S. Walsh**, S. Takeda**, J. Tu**

Business Mathematics Coordinator S. Goldschmidt
Calculus Coordinator A. Clayton
College Algebra Coordinator T. E. Christiansen

• Graduate Faculty Member - membership is required to teach graduate-level courses, chair master’s thesis committees, and serve on doctoral examination and dissertation committees.
• Doctoral Faculty Member - membership is required to chair doctoral examination or dissertation committees. Graduate faculty membership is a prerequisite for Doctoral faculty membership.

Undergraduate

• Department Level Requirements (http://catalog.missouri.edu/undergraduategraduate/collegeofartsandscience/mathematics/department-level-requirements)
• BA in Mathematics (http://catalog.missouri.edu/undergraduategraduate/collegeofartsandscience/mathematics/ba-mathematics)
• BS in Mathematics (http://catalog.missouri.edu/undergraduategraduate/collegeofartsandscience/mathematics/bs-mathematics)
  • with emphasis in Actuarial Science and Mathematical Finance (http://catalog.missouri.edu/undergraduategraduate/collegeofartsandscience/mathematics/bs-mathematics-actuarial-science-mathematical-finance)
• Minor in Mathematics (http://catalog.missouri.edu/undergraduategraduate/collegeofartsandscience/mathematics/minor-mathematics)

The Department of Mathematics offers a major with either a Bachelor of Arts or a Bachelor of Science degree. Within the BS degree, an emphasis in Actuarial Science and Financial Mathematics is available. Both the BA and BS degrees will prepare a student for a graduate program in Mathematics.

Preparation for Graduate Study in Mathematics

Students satisfying the requirements for either the BA or the “traditional” BS will have the basic preparation for a graduate program in Mathematics. A student considering graduate work, however, should take additional coursework. Because of this, a BS degree would be considered preferable. Those students in the Actuarial Science area considering graduate work should take MATH 4720 as part of their program. Those students getting a dual degree in Mathematics and Mathematics Education considering graduate work in mathematics should choose to take both MATH 4700 and MATH 4720 as part of their program.

Courses recommended for students planning to pursue graduate studies in pure mathematics: MATH 4400, MATH 4500, MATH 4900, MATH 4920, and MATH 4940.

Courses recommended for students planning to pursue graduate studies in applied mathematics: MATH 4300, MATH 4310, MATH 4315, MATH 4320, MATH 4500, MATH 4540, MATH 4940.

Departmental Honors

Eligibility

To become a candidate for the BA or BS degree with a major in Mathematics with departmental honors, a student must have a cumulative grade point average that meets the Honors College standards. At present, students with a GPA of 3.30 or higher are automatically eligible to enter the departmental honors programs.

Requirements

To graduate with departmental honors in mathematics, a student must satisfy the regular BA or BS degree requirements and must have a GPA of 3.5 or higher in all Mathematics Department courses. In addition, the student must have at least 26 credits in mathematics courses numbered 4000 or above. Furthermore, the student must complete one of the two options listed below.

Option 1: Honors Thesis

The student must write an honors thesis in conjunction with a mentorship or in conjunction with MATH 4996. This option requires that the student enroll in MATH 4996.

Option 2:

The student’s program of study must include MATH 4700, MATH 4900, MATH 4720 and MATH 4920.

Graduate

• MA in Mathematics (http://catalog.missouri.edu/undergraduategraduate/collegeofartsandscience/mathematics/ma-mathematics)
• MS in Applied Mathematics (http://catalog.missouri.edu/undergraduategraduate/collegeofartsandscience/mathematics/ms-applied-mathematics)
• MST in Mathematics (http://catalog.missouri.edu/undergraduategraduate/collegeofartsandscience/mathematics/mst-mathematics)
• PhD in Mathematics (http://catalog.missouri.edu/undergraduategraduate/collegeofartsandscience/mathematics/phd-mathematics)

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https://www.math.missouri.edu/grad/index

Director of Graduate Studies: Stephen Montgomery-Smith

About Mathematics

The Graduate Program in Mathematics is large enough to encompass research and courses in many areas, yet small enough to remain responsive to the needs of individual students. There are approximately 80 graduate students, 40 professors, and 15 postdoctoral and visiting researchers. The active areas of research include: algebraic geometry, analysis (real, complex, functional and harmonic), analytic functions, applied mathematics, financial mathematics and mathematics of insurance, commutative rings, scattering theory, differential equations (ordinary and partial), differential geometry, dynamical systems, general relativity, mathematical physics, number theory, probabilistic analysis and topology.

The Mathematical Sciences Building houses a library with more than 34,000 volumes and 430 journal titles. MU students have access to an extensive array of computing resources.

Admission Notice

Applicants for any graduate degree in mathematics should submit an application for graduate study. Admission to the graduate program does NOT guarantee admission to the Ph.D. program. International Applicants applying from outside North America who seek financial support from the Department will only be considered for the PhD program.

Financial Aid from the Program

All domestic applications for admission are automatically considered for financial support, in most cases by Teaching Assistantships. Virtually all current students are supported financially. Scholarships, assistantships, fellowships and other sources of aid are available.

The Department Research Fellowship, the Blumenthal Scholarship and the McFarlan Fellowship are administered by the department, while the Huggins Scholarship, Gregory Fellowship and Ridgel Fellowship are administered by the university.

International applications with TOEFL of 85 or higher (or equivalent) will also be automatically considered for departmental financial support.