MATHEMATICS: FOUNDATIONS FOR RESEARCH, M.A.

This is a named option within the Mathematics M.A. (http://guide.wisc.edu/graduate/mathematics/mathematics-ma/), which is offered for work leading to the Ph.D.

Information about the requirements and policies for this program can be found in this Guide.

ADMISSIONS

The M.A. (no named option) is offered for work leading to the Ph.D. Students may not apply directly for the master’s, and should instead see the admissions information for the Ph.D (http://guide.wisc.edu/graduate/mathematics/mathematics-phd/).

Students may also apply to the M.A. Named Option in Foundations of Advanced Studies (http://guide.wisc.edu/graduate/mathematics/mathematics-ma/mathematics-foundations-advanced-studies-ma/).

FUNDING

GRADUATE SCHOOL RESOURCES

Resources to help you afford graduate study might include assistantships, fellowships, traineeships, and financial aid. Further funding information (https://grad.wisc.edu/funding/) is available from the Graduate School. Be sure to check with your program for individual policies and restrictions related to funding.

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/ #policiesandrequirementstext), in addition to the program requirements listed below.

NAMED OPTION REQUIREMENTS

MODE OF INSTRUCTION

<table>
<thead>
<tr>
<th>Mode of Instruction Definitions</th>
<th>Face to Face</th>
<th>Evening/Weekend</th>
<th>Online</th>
<th>Hybrid</th>
<th>Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students are able to complete a program with minimal disruptions to careers and other commitments. Evening/Weekend: Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments. Face-to-Face: Courses typically meet during weekdays on the UW–Madison Campus. Hybrid: These programs combine face-to-face and online learning formats. Contact the program for more specific information. Online: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.</td>
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<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

REQUIRED COURSES

(i) Core Courses: ¹

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 703</td>
<td>Methods of Applied Mathematics 1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 704</td>
<td>Methods of Applied Mathematics-2</td>
<td>3</td>
</tr>
<tr>
<td>MATH/COMP SCI 714</td>
<td>Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH/COMP SCI 715</td>
<td>Methods of Computational Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 721</td>
<td>A First Course in Real Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 722</td>
<td>Complex Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 725</td>
<td>A Second Course in Real Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH/STAT 733</td>
<td>Theory of Probability I</td>
<td>3</td>
</tr>
<tr>
<td>MATH/STAT 734</td>
<td>Theory of Probability II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 741</td>
<td>Abstract Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 742</td>
<td>Abstract Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 751</td>
<td>Introductory Topology I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 752</td>
<td>Introductory Topology II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 761</td>
<td>Differentiable Manifolds</td>
<td>3</td>
</tr>
<tr>
<td>MATH 770</td>
<td>Foundations of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 771</td>
<td>Set Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Select four of the following:
PRIOR COURSEWORK

University of Wisconsin–Madison Undergraduate

The coursework earned five or more years prior to admission to a master's degree is not allowed to satisfy requirements.

UW–Madison University Special

With program approval, students are allowed to count no more than 15 credits of coursework numbered 300 or above taken as a UW–Madison Special student. Coursework earned five or more years prior to admission to a master's degree is not allowed to satisfy requirements.

PROBATION

The Graduate School regularly reviews the record of any student who earned grades of BC, C, D, F, or Incomplete in a graduate course (300 level or above), or grade of U in research credits. This review could result in academic probation with a hold on future enrollment or in being suspended from the Graduate School.

1. Good standing (progressing according to standards; any funding guarantee remains in place).
2. Probation (not progressing according to standards but permitted to enroll; loss of funding guarantee; specific plan with dates and deadlines in place in regard to removal of probationary status).
3. Unsatisfactory progress (not progressing according to standards; not permitted to enroll, dismissal, leave of absence or change of advisor or program).

ADVISOR / COMMITTEE

Students are recommended to meet with an advisor.

CREDITS PER TERM ALLOWED

15 credits

TIME CONSTRAINTS

Two years. Extensions have to be approved by the program.

Master's degree students who have been absent for five or more consecutive years lose all credits that they have earned before their absence. Individual programs may count the coursework students completed prior to their absence for meeting program requirements; that coursework may not count toward Graduate School credit requirements.

GRIEVANCES AND APPEALS

These resources may be helpful in addressing your concerns:

• Bias or Hate Reporting (https://doso.students.wisc.edu/bias-or-hate-reporting/)
• Graduate Assistantship Policies and Procedures (https://hr.wisc.edu/policies/gapp/#grievance-procedure)
• Hostile and Intimidating Behavior Policies and Procedures (https://hr.wisc.edu/hib/)
• Office of the Provost for Faculty and Staff Affairs (https://facstaffprovost.wisc.edu/)
• Dean of Students Office (https://doso.students.wisc.edu/) (for all students to seek grievance assistance and support)
• Employee Assistance (http://www.eao.wisc.edu/) (for personal counseling and workplace consultation around communication and conflict involving graduate assistants and other employees, post-doctoral students, faculty and staff)
• Employee Disability Resource Office (https://employeedisabilities.wisc.edu/) (for qualified employees or applicants with disabilities to have equal employment opportunities)
• Graduate School (https://grad.wisc.edu/) (for informal advice at any level of review and for official appeals of program/departmental or school/college grievance decisions)
• Office of Compliance (https://compliance.wisc.edu/) (for class harassment and discrimination, including sexual harassment and sexual violence)
• Office of Student Conduct and Community Standards (https://conduct.students.wisc.edu/) (for conflicts involving students)
• Ombuds Office for Faculty and Staff (http://www.ombuds.wisc.edu/) (for employed graduate students and post-docs, as well as faculty and staff)
• Title IX (https://compliance.wisc.edu/titleix/) (for concerns about discrimination)

Students should contact the department chair or program director with questions about grievances. They may also contact the L&S Academic Divisional Associate Deans, the L&S Associate Dean for Teaching and Learning Administration, or the L&S Director of Human Resources.

OTHER
n/a

PROFESSIONAL DEVELOPMENT

GRADUATE SCHOOL RESOURCES

Take advantage of the Graduate School's professional development resources (https://grad.wisc.edu/pd/) to build skills, thrive academically, and launch your career.

PEOPLE

Faculty: Professors Anderson, Angenent, Arinkin, Căldăraru, Craciun, Denisov, Ellenberg, Feldman, Gong, Kent, Lempp, Mari Beffa, Maxim, Miller, Paul, Poltoratski, Roch, Seeger, Seppäläinen (chair), Smith, Stechmann, Street, Terwilliger, Thiffeault, Valko, Waleffe, Yang; Associate Professors Andrews, Dymarz, Erman, Gorin, Gurevich, Ifrim, Kim, Li, Marshall, Soskova, Spagnolie, Stovall, Tran; Assistant Professors Chen, Cochran, Guo, Kemeny, Rodriguez, Shankar, Shcherbyna, Shen, Waldron, Wang, Wu, Zepeda-Núñez, Zimmer; Affiliate Faculty Pimentel-Alarcón, Ron.