MASTER OF ARTS IN THE FIELD OF MATHEMATICS

Faculty expertise covers a wide range of research fields, including analysis, ordinary and partial differential equations, dynamical systems, applied math (including numerical analysis), combinatorics, logic, topology and knot theory. With about 30 graduate students and 20 faculty members, there is lively interaction as well as extensive individual attention.

All graduate students have individual advisers throughout their enrollment, starting from the time of admission. New students also receive peer advisers. In addition, research seminars and the department colloquium series help students explore potential research areas.

The MA in Mathematics is a STEM-designated program.

Visit the program website (https://math.columbian.gwu.edu/ma-mathematics/) for additional information.

ADMISSIONS

Admission deadlines:
- Fall - February 1: Priority consideration for admission and funding; April 1: Guaranteed review for admission and consideration for funding, if available. (Applications for admission will continue to be accepted after April 1, when space remains available in the program.)

Standardized test scores:
- GRE general test required; GRE subject test recommended (institutional code 5246).

The Test of English as a Foreign Language (TOEFL), the academic International English Language Testing System (IELTS), or the PTE Academic is required of all applicants except those who hold a bachelor’s, master’s, or doctoral degree from a college or university in the United States or from an institution located in a country in which English is the official language, provided English was the language of instruction.

Minimum scores for the program are:
- Academic IELTS: an overall band score of 6.0 with no individual score below 5.0; or
- TOEFL: 600 on paper-based or 100 on Internet-based; or
- PTE Academic: 53;

Applicants to the program who do not meet minimum English language requirements may be eligible for our full-time Applied English Language program.

Prerequisite: A bachelor’s degree in mathematics or comparable coursework.

Recommendations:
Two (2) recommendations required.

Prior academic records:
Transcripts are required from all colleges and universities attended, whether or not credit was earned, the program was completed, or the credit appears as transfer credit on another transcript. Unofficial transcripts from all colleges and universities attended must be uploaded to your online application. Official transcripts are required only of applicants who are offered admission. If transcripts are in a language other than English, English language translations must be provided. The English translation alone should be uploaded into your application.

Statement of purpose:
In an essay of 250 – 500 words, state your purpose in undertaking graduate study in your chosen field. Include your academic objectives, research interests, and career plans. Also discuss your related qualifications, including collegiate, professional, and community activities, and any other substantial accomplishments not already mentioned on the application. If you are applying for an assistantship or fellowship, you should also describe any teaching experience you have had.

International applicants only:
Please review International Applicant Information (https://columbian.gwu.edu/international-graduate-applicants) carefully for details on required documents, earlier deadlines for applicants requiring an I-20 or DS-2019 from GW, and English language requirements. Please note: international students who require a student visa from GW are not eligible to apply for admission to the Certificate program.

Supporting documents not submitted online should be mailed to:
Columbian College of Arts and Sciences, Office of Graduate Studies
The George Washington University
801 22nd Street NW, Phillips Hall 107
Washington DC 20052

For additional information about the admissions process visit the Columbian College of Arts and Sciences Frequently Asked Questions (https://columbian.gwu.edu/graduate-admissions-faq/) page.

Contact:
askccas@gwu.edu
202-994-6210 (phone)

Hours: 9:00 am to 5:00 pm, Monday through Friday

REQUIREMENTS

The following requirements must be fulfilled:
The general requirements stated under Columbian College of Arts and Sciences, Graduate Programs (https://bulletin.gwu.edu/arts-sciences/#degreeregulationtext).

30 credits in approved coursework divided between mathematics and one of the following areas of application: computer science, economics, engineering (civil, electrical, mechanical, or systems), operations research, physics, or statistics. No more than 12 credits toward the degree can be outside mathematics. Students must petition and obtain the approval of the graduate committee in order to register for courses outside the department. MATH 6995 Reading and Research (independent study), can be taken only by petition to, and with the approval of, the graduate committee.

Up to 6 credits in courses taken at other institutions of the Consortium of Universities of the Washington Metropolitan Area (https://registrar.gwu.edu/consortium/) may count toward degree requirements. Students wishing to take such courses must petition and obtain the approval of the graduate committee.

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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<td>Subject to the approval of the graduate committee (requested via petition) and the agreement of the instructor, mathematics graduate students may take up to 6 credits in the undergraduate courses listed below for graduate credit. Appropriate additional work must be assigned for students to receive graduate credit in an undergraduate course.</td>
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<tr>
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<tbody>
<tr>
<td>MATH 3613</td>
<td>Introduction to Combinatorics</td>
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<td>MATH 3632</td>
<td>Introduction to Graph Theory</td>
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<td>MATH 3710</td>
<td>Introduction to Mathematical Logic</td>
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<td>MATH 3720</td>
<td>Axiomatic Set Theory</td>
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<td>MATH 3730</td>
<td>Computability Theory</td>
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<td>MATH 3740</td>
<td>Computational Complexity</td>
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<td>MATH 3848</td>
<td>Differential Geometry</td>
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<td>MATH 4239</td>
<td>Real Analysis I</td>
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<tr>
<td>MATH 4240</td>
<td>Real Analysis II</td>
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<td>MATH 4981</td>
<td>Seminar: Topics in Mathematics</td>
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