

# Graduate Programs

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See a mirror of this page on the University website.

More than 60 students are enrolled in our graduate programs.

At the graduate level, we offer:

1. **MA in Statistics** (renamed as **MS in Data Science & Statistics** in Fall 2025), including a 4+1 program in which students can earn a BA or BS in Mathematical Sciences alongside a master's degree within five years
2. **MA in Mathematics**
3. **PhD in Mathematical Sciences**

## MS in Data Science and Statistics

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The MS in Data Science & Statistics program is tailored toward data science, statistics and computational sciences. It emphasizes real-world applications, preparing skilled statisticians and data scientists for professional careers in industry. The curriculum includes a lab component focusing on contemporary data analysis practices, exposing students to relevant methods, software and theory.

Details about the MS in Data Science & Statistics program.

## MA in Mathematics and PhD in Mathematical Sciences

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Both the MA in Mathematics and PhD in Mathematical Sciences programs encourage a broad understanding of various mathematical subjects. These programs include coursework in both mathematics and statistics, allowing students to explore a wider range of topics than typically offered in departments dedicated to either mathematics or statistics. Funding through teaching or research assistantships is available.

Details about the MA in Mathematics and PhD in Mathematical Sciences programs.

## Faculty and Class Sizes

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Our department has a dedicated and distinguished faculty with research expertise in areas such as algebra, number theory, analysis, combinatorics, dynamical systems, geometry/topology, applied and computational mathematics, probability, and statistics. We maintain small class sizes (typically five to 20 students), facilitating active interaction in the classroom and personalized advising.

## Graduate Student Activities

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Our graduate students are actively engaged beyond their coursework and research. They participate in seven regular seminar series and organize the annual Binghamton University Graduate Conference in Algebra and

Topology (BUGCAT), which has been running since 2008.

## Alumni Success

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Our graduates have gone on to successful careers in both industry and academia. Here are some examples of where our alumni are now:

### Industry

- AbbVie - Senior Statistician
- Amazon.com, Inc. - Data Scientist
- Celgene - Biostatistician
- Corning Inc. - Statistician
- Google - Software Engineer
- JP Morgan Chase - Risk Pricing Analyst
- Tiktok - Machine Learning Engineer
- Wells Fargo Bank - Quantitative Associate

### Academia

- Indiana University, Indianapolis
- Miami University (Ohio)
- King's College
- Texas Tech University
- University of Alabama
- University of San Diego
- University of Science and Technology of China
- University of Utah
- Utica College

## Funding

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Students in the Masters in Statistics program do not normally receive financial support from Binghamton. Two exceptions are the Clark Fellowship and the Kappe Fellowship.

The Kappe Fellowship is awarded to a student enrolled in either the Master of Arts in Mathematics or the Master of Arts in Statistics program. Preference is given to female candidates who completed part of their secondary education at a State University of New York campus, excluding Binghamton University. Secondary consideration is given to candidates from any U.S. higher education institution. The fellowship will be sufficient to cover nearly one year of in-state graduate tuition at Binghamton University.

Most of our full-time graduate students in the Mathematics MA and the PhD programs have teaching assistantships, or in some cases are supported as research fellows. Teaching assistants receive a stipend and a full tuition scholarship in return for teaching or grading duties. Being a teaching assistant gives the student useful and marketable experience in teaching at the college level, and the duties leave plenty of time for full-time graduate study. Typically, a teaching assignment might involve three to five hours per week in the classroom, together with preparation time and office hours. Someone with no previous teaching experience usually assists a faculty member by conducting recitation sections. More experienced teaching assistants lead their own calculus or pre-calculus classes.

Summer support is also available for some students. The tuition scholarship covers all tuition expenses, but not the (relatively small) student fees.

Candidates for the MA degree who receive an assistantship can expect to have it renewed for a second year, provided their academic and assistantship work are both satisfactory. Those who wish to proceed to the PhD are reevaluated at the end of the second year. If their support is renewed and they continue to make satisfactory degree progress, they can expect to be supported until they receive the PhD degree; however, Graduate School regulations limit assistantship support to a total of six years in such cases. This paragraph should be understood as

a statement of our general policy; legally, support is given one year at a time.

Additional funding resources include:

- [Squier Assistantships](#), available through the department
- Fellowships and Scholarships, available throughout the University
- The Binghamton University's Office of External Scholarships, Fellowships and Awards
- A privately maintained web page of Scholarships, Graduate Fellowships & Postdoctoral Awards.

## Admission

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Application to our graduate programs is done through the Graduate School. Use the links below to apply.

- The Graduate School
- How to apply

The application deadline to be considered for funding is Jan. 15. All applications received by April 15 will be considered for admission.

## Resources for current students

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- Graduate Handbook: all new graduate students in DOMS are **strongly advised** to read the Graduate Handbook very carefully, including regulation on use of Math 597.
- University Graduate Student Manual.
- Information for degree completion including deadlines.
- Guidelines for Preparing a Thesis or Dissertation.
- Harpur College Academic Grade Grievance Procedures and Graduate School Grievance Appeal Procedures

From:

<http://www2.math.binghamton.edu/> - **Department of Mathematics and Statistics, Binghamton University**

Permanent link:

**<http://www2.math.binghamton.edu/p/gd>**

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