

# Graduate Programs

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## Summary

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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

## 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 for funding consideration is January 30. All applications received by April 15 will be given full consideration for admission.

Applicants who intend to pursue a PhD at Binghamton should apply to the PhD program, even if they do not yet have a master's degree.

## Funding

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### Funding for MA and MS Students

Students in the MA in Mathematics and the MS in Data Science & Statistics programs do not normally receive financial support from Binghamton University. Two exceptions are the Clark Fellowship and the Kappe Fellowship.

### Kappe Fellowship

The Kappe Fellowship is awarded to a student enrolled in either the MA in Mathematics or the MS in Data Science &

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.

## Funding for PhD Students

Most of our full-time graduate students pursuing the PhD 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. The tuition scholarship covers all tuition expenses, but not the (relatively small) student fees. 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.

Teaching assistantships are only available to students who are enrolled in the PhD program. Thus applicants who intend to pursue a PhD at Binghamton should apply to the PhD program, even if they do not yet have a master's degree. Successful applicants may be enrolled in the PhD program and receive a teaching assistantship while they pursue their master's degree.

Students who receive an assistantship can expect to have it renewed for a second year, provided their academic and assistantship work are both satisfactory. A more rigorous evaluation on funding is made at the end of the second year. If a student's support is renewed then, 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.

## Graduate alumni

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

Permanent link:  
<https://www2.math.binghamton.edu/p/feeds/mc/gd/gd1>

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