Graduate Programs

At the graduate level, we offer

1. **MA** in **Mathematics**,  
2. **MA** in **Statistics**, and  
3. **PhD** in **Mathematical Sciences**.

Overviews

Both our MA and PhD programs encourages breadth across subjects in mathematics. In particular, both programs require courseworks from at least three different areas among the five areas of concentration in the department.

Typically, an MA degree is finished in two years. The **MA** in **Mathematics** degree entails 8 graduate courses (32 credit hours) with certain area distribution and minimum grade requirements, and either an MA oral examination or MA thesis. Information about the **MA** in **Statistics** program can be found on this website.

The duration of PhD varies. A student entering the program with only a bachelor's degree can expect to spend 5 to 6 years. A milestone of the PhD is the **Admission to Candidacy Exam** which is typically held in the fourth year of graduate study for those who enter the program without master's degrees. The major work of earning a PhD involves the writing of a research dissertation under the guidance of a faculty member. While our highest degree is a PhD “in mathematics”, a significant number of our doctoral dissertations are written on research topics in mathematical **statistics**.

See the University Bulletin for the official descriptions of our graduate programs and courses as well as links to pages about admissions.

Read the Graduate Handbook for details.
Admission

- **Information about the graduate program** including the nature and length of the program as well as financial support.
- **Requirements for admission to the graduate program.**
- **Squier Assistantships** available through the department

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

- The Graduate School web pages
- How to apply to either a degree program or a non-degree program.

Funding

Usually a PhD student begins by getting an MA degree. Many of our MA and PhD students are also teaching assistants or in some cases are supported as research fellows. 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. Approximately 50 of our 70 graduate students receive financial support of this kind. MAT students do not normally have financial support within the department.

- The Binghamton University’s Office of External Scholarships, Fellowships and Awards is a major resource of information on external funding.
- A privately maintained web page of Scholarships, Graduate Fellowships & Postdoctoral Awards.

For current students

All new graduate students in DOMS are advised to read the Graduate Handbook very carefully.

A list of other useful links is included below.

- University Graduate Student Manual.
- Information for degree completion including deadlines.
- Guidelines for Preparing a Thesis or Dissertation.
- The Graduate School Professional Development page.
- A description of the 3/2 program giving a BA and MAT degree in five years.
- Preparing Future Faculty
- **Template files** in TeX for typing a thesis in the approved format. *Warning: the likelihood that these files go out of date over time is very high.* Accessible only from computers on campus.
- BUGCAT Website - The website of the annual Binghamton University Graduate Conference in Algebra and Topology, mounted by the graduate students of the department since 2008.
Where are our recent PhD alumni now?

In Field and Industry

- Amazon.com, Inc. – Data Scientist
- Celgene
- Corning Inc. – Statistician
- Explorys - IBM Watson Health
- Janssen Research & Development
- JP Morgan Chase
- Wells Fargo Bank – Quantitative Associate

In Academia and Higher Education

- Alfred University
- Case Western Reserve University
- Christopher Newport University
- Colgate University
- Cornell University
- Universidade Federal de Sergipe (Federal University of Sergipe)
- Harvey Mudd College
- Indian Institute of Science Education and Research Thiruvananthapuram
- Institut fur Mathematik
- Juniata College
- Ohio State University
- Pennsylvania State University at Harrisburg
- SUNY Brockport
- SUNY Oneonta
- SUNY Oswego
- Texas State University
- University of North Texas
- University of Scranton
- University of Wisconsin Eau-Claire
- Ursinus College
- Utica College
- Trinity College

Graduates and alumni

- Graduate Newsletter - A new webpage with news about our faculty and graduate alumni.
- Past theses