2025/12/18 23:33 1/4 Homepage

Welcome to the Homepage of **Department of Mathematics and Statistics**

Calculus at Binghamton Check out the Problem of the Week.







The Department of Mathematics and Statistics (DOMS) is a vibrant community where mathematicians and statisticians converge to explore, innovate, and educate. We offer a comprehensive range of academic programs, spanning the bachelor's, master's, and doctoral levels. Thus, besides our faculty and postdoctoral visitors, our community includes a large and valuable cadre of hard-working and talented undergraduate and graduate students.

At the <u>undergraduate</u> level, we have two kinds of degrees: general degrees for majors in Mathematical Sciences are labeled **Bachelor of Arts (BA)**, while our more intensive undergraduate degrees are labeled **Bachelor of Science (BS)**. There are both mathematics tracks and actuarial science tracks within both degrees. For the BA degree, there is also a track in Statistics. A minor in mathematics is also possible.

At the <u>graduate</u> level, we have the **PhD** in *Mathematical Sciences*, **Master of Arts (MA)** in *Mathematics*, and **MS** in *Data Science & Statistics* degrees. The latter includes a 4+1 program in which students can earn a BA or BS in Mathematical Sciences alongside a master's degree within five years.

2025/12/18 23:33 3/4 Homepage

While our highest degree is a PhD in *Mathematical Sciences*, a significant number of our doctoral dissertations are written on research topics in *Statistics*.

All faculty members and postdoctoral visitors are active researchers. The <u>main areas of concentration</u> in the department are: **Algebra**, **Analysis**, **Combinatorics**, **Geometry/Topology** and **Statistics**. Additionally, there is active research that falls between and bridges the main areas. See the <u>Research Areas</u> page for more specific research topics.

The photos above were taken by Jinghao Li, Ph.D. 15'.

Latest Department News

Binghamton alum Alexander Freedman '15 (actuarial science and economics) qualified for the in-person finals of the 2025 Microsoft Excel World Championship in Las Vegas.

Links

University story: A formula for success — Binghamton News.

2025/12/18 22:59

The 18th Annual Binghamton University Graduate Combinatorics, Algebra, and Topology Conference (BUGCAT) was held in person November 15–16, 2025. Featured keynotes were Caroline Klivans (Brown), Kim Ruane (Tufts), and Matt Zaremsky (University at Albany).

Links

Conference page: **BUGCAT**.

2025/12/18 22:57

Binghamton News featured applied mathematics PhD candidate Brian Kirby and his research in general relativity ("Brian Kirby's equation").

Links

University story: Brian Kirby's equation — Binghamton News.

2025/12/18 22:53

Older entries >>

Click <u>here</u> for the full news archive.

Suggestions and comments about the website can be sent to webmaster@math.binghamton.edu

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Last update: 2025/12/18 23:08

