UNDERGRADUATE STUDIES IN

MATHEMATICS



Today more than ever, mathematics plays a dominant role in the physical and engineering sciences and has a firm place in the fields of biology, medicine, economics, and finance. With the enormous advances in computer technology, we are now able to effectively study and simulate very complex phenomena. This study requires systematic, rigorous thinking and problem solving, which mathematicians do on a daily basis.

Building the foundation for quantitative careers

The School of Mathematics at Georgia Tech offers an undergraduate Bachelor of Science degree in Mathematics. Students pursuing the B.S. in Mathematics may add an optional concentration in Applied Mathematics, Discrete Mathematics, Mathematical Foundations of Data Science, Probability and Statistics, or Pure Mathematics. A B.S. in Mathematics from Georgia Tech is excellent preparation not only for graduate school and a career in academia/education, but for jobs in many different quantitative fields such as actuarial science, biostatistics, and cryptography.

Combined B.S./M.S. option

The Georgia Tech College of Sciences B.S./M.S. degree program in Mathematics enables highly motivated students with strong academic credentials to earn a Bachelor of Science degree in Mathematics and a Master of Science in Mathematics. The B.S./M.S. program prepares students for competitive career placements with higher earning potentials as well as competitive admission to Ph.D. and professional programs (including medical/law/pharmacy/dental/pharmacy schools).

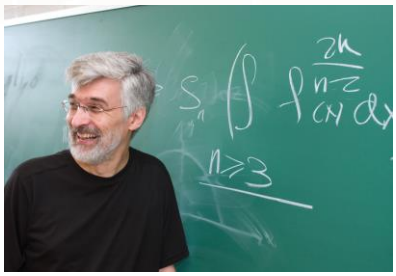
Prioritizing student-faculty interaction

The more than fifty undergraduate courses offered by the School of Mathematics cover a broad range of academic interests. The collective expertise of the 60 tenured and tenure-track faculty members encompasses a vast variety of subjects. The School of Mathematics maintains a friendly and personal feel with plenty of opportunities for student-faculty interactions.

FOR MORE INFORMATION

For more information, please see **math.gatech.edu** or contact the school's undergraduate advisors at **undergrad-advisor@math.gatech.edu**.













Undergraduate research

Undergraduate students working in world renowned research groups in the school have contributed to research that has been presented at national and international conferences and published in leading scholarly journals. For example:

- **Alex Divoux**'s work as an undergraduate student has been published in the *Journal of Combinatorial Designs* and the *Electronic Journal of Combinatorics*. He was invited to speak at the 2024 Joint Math Meetings and is now a Ph.D. student at Princeton University.
- **Michelle Delcourt** appeared as a coauthor on the paper "Discrete Bernoulli Convolutions: An Algorithmic Approach Toward Bound Improvement", published in the *Proceedings of the American Mathematical Society*.
- **Antonio Blanca** participated in a summer Research Experiences for Undergraduates Program. He presented his work at the Joint Mathematics Meetings in New Orleans. This work was also accepted for publication in the *SIAM Journal on Discrete Mathematics*.

International opportunities

Students in the School of Mathematics have a wide range of opportunities for undergraduate study at institutions throughout the world. Further information can be obtained from the Office of International Education (**oie.gatech.edu**). For example, each year a number of our majors participate in a math exchange program in Budapest, Hungary.

Careers

The B.S. programs in Mathematics provide exceptional levels of preparation for admission to graduate study in mathematics and related fields, as well as professional graduate programs (e.g., medicine, veterinary science, health, pharmacy, law, etc.). Graduates take positions in all types of employment sectors, such as:

- Finance
- Information security
- Operations management
- Consulting
- Communications
- Engineering
- Logistics
- Actuarial science
- National Security Agency (NSA)
- Software development
- Research and development
- Data processing
- Sales and marketing
- State and federal agencies (e.g., NIST, NASA)

Georgia Tech has the largest voluntary co-op education program in the nation. Participation in co-op or internship programs provides financial support for your studies and invaluable experiences. See **career.gatech.edu** for more information.

- Georgia Tech is nationally recognized as a top-value college due to its academics, affordability, and career outcomes. [1]

[1] https://finaid.gatech.edu/costs/return-on-investment