Have you wondered how real numbers are defined? How spheres differ from donuts? Are you curious about the mathematics behind cryptography, financial models, machine learning, or quantum algorithms? Or are you interested in mathematics simply for its elegance and beauty? Then Mathematics at York is the program for you.

The emphasis in this program is on understanding mathematical concepts, abstraction, and reasoning. You will also get an excellent foundation for a wide range of applications beyond mathematics and for many occupations demanding skills in mathematical reasoning and techniques.

In the first year course Problems, Conjectures, and Proofs, with class sizes of at most 35 students, you can interact with your peers and get personal attention from professors.

In the Bachelor of Arts (BA) program, you may also take courses in humanities, social sciences, economics, and languages. In the Bachelor of Science (BSc) program you may also take courses in other science fields in biology, chemistry, physics, computer science, and the earth and atmospheric science.
Experiential Education

You can participate in leading edge research in a research project supported by the Natural Science and Engineering Research Council of Canada. York is also a sponsoring member of the Fields Institute for Research in Mathematical Sciences.

In this program, you can work on problems in the classroom and in personalized reading courses. You can also participate in events outside the classroom like mathematics contests.

Students can participate in the Internship programs through the Science Academic Services office in the Faculty of Science.

Visit yorku.ca/science/students/experiential-education/ for more information.

Possible Career Pathways

This program is a gateway to rewarding careers such as:

- Mathematician
- Industry and Scientific Research
- Teacher / Professor
- Cryptologist / Cryptographer
- Data Scientist
- Computer Programmer / System Analyst
- Tech Start-Up
- Applied Science Technologist
- Machine Learning Analyst
- Quality Control Analyst
- Risk Manager
- Accountant / Financial Auditor / Financial Analyst
- Derivatives Trader
- Operations Research
- Demographer
- Software Engineer

Get In Touch

Domestic Students:
science@yorku.ca

International Students:
intlsci@yorku.ca

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“One of the major strengths of the Mathematics and Statistics department is it's amazing faculty. Many professors are willing to take the time out of their busy schedule to help you succeed in the classroom and in your career, some of whom have mentored me in my career and research.”

- Xavier, Mathematics & Statistics Student