Mathematicians discover and study structures that are fascinating in themselves and that have a surprising ability to help us make sense of many facets of the world: the physical, the biological, the economic, the artistic, the psychological, and the philosophical. By designing and analyzing mathematical models, we increase our understanding of natural processes and human events.

Mathematical thinking develops logical reasoning skills that will help in analyzing ‘real-world’ problems.

According to Galileo, mathematics is the language of science and hence essential for all scientific study.

Our digital age requires training in the STEM subjects, of which mathematics is an essential part.

Mathematics develops the imaginative faculty and has the aesthetic quality of the humanities.

The concepts and skills that are gained in the study of Mathematics help you to analyze complex systems.

Rhodes Scholar Nithum Thain completed his BScH in Math, scoring a perfect GPA while being the captain of the fencing team at Queen’s, where he won two provincial gold medals. He has enjoyed a wide range of professional opportunities – starting off at Empire Avenue as the VP of Research, working on the algorithms that ran their online gaming platform, and followed by working as a Business Development Analyst at createLIVE.

TOP 5 REASONS to study MATHEMATICS

1. Mathematical thinking develops logical reasoning skills that will help in analyzing ‘real-world’ problems.
2. According to Galileo, mathematics is the language of science and hence essential for all scientific study.
3. Our digital age requires training in the STEM subjects, of which mathematics is an essential part.
4. Mathematics develops the imaginative faculty and has the aesthetic quality of the humanities.
5. The concepts and skills that are gained in the study of Mathematics help you to analyze complex systems.

ALUMNI JOBS

7% of alumni work in GOVERNMENT
10% of alumni work in TECHNOLOGY
17% of alumni work in BANKING, INVESTMENT & INSURANCE
33% of alumni work in EDUCATION

2020-21 major thresholds

0.7 cGPA AUTOMATIC ACCEPTANCE min C in MATH 1##
OPEN PENDING LIST

Thresholds are made on a competitive basis and are updated annually. To see the thresholds for all programs as well as the latest information, please visit quartsci.com/planselection

That is a degree from Queen’s.

queensu.ca/mathstat
# Mathematics Major Map *

**Bachelor of Science (Honours): Major, Medial, Minor, Specialization**

## 1st Year
- **Get the Courses You Need**
  - In first year you will have the chance to explore the foundations of Mathematics along with some electives.
  - Attend Majors Night in the Winter term to learn more about Plan options.

## 2nd Year
- **Get Relevant Experience**
  - Join teams or clubs on campus such as the Queen's Math Club, Putnam team, and the Math Investigations Program.
  - See the AMS Clubs Directory or the Queen's Get Involved page for more ideas.

## 3rd Year
- **Get Connected with the Community**
  - Volunteer on or off campus with different community organizations such as Best Buddies.

## 4th or Final Year
- **Consider a 12-16 Month Quip Internship**
  - Investigate requirements for full-time jobs or other opportunities related to careers of interest. Assess what experience you’re lacking and fill in gaps with volunteering, clubs, or internships – check out the Careers Skills workshop for help.

## Consider a 12-16 Month Quip Internship
- **Where can I go?**
  - A degree in Math can take your career in many directions. Many students choose to continue their academic inquiry with a Master’s. Our students are equipped with a strong foundation for careers in:
    - Mathematician
    - Financial analysis
    - Data scientist
    - Cryptanalyst
    - Aerospace
    - Banking
    - Cryptologist
    - Data scientist
    - Education
    - Financial analysis
    - Mathematician
    - Risk analyst

## Get Thinking Globally
- **Prepare for work or studies in a multi-cultural environment by taking Quip’s Intercultural Competency Certificate and research possible immigration regulations.**
  - Speak to a Quip advisor to get involved in their programs, events, and training opportunities.

## Get Ready for Life After Graduation
- **Grappling with program decisions?** Go to Majors Night or get some help wondering about career options from Career Services.
  - Build your transferable skills in time management, problem-solving, writing and more with Student Academic Success Services.

Visit careers.queensu.ca/majormaps for the online version with links!

* This map is intended to provide suggestions for activities and careers, but everyone’s abilities, experiences, and constraints are different. Build your own Major Map using our online My Major Map tool.
MAJOR MAP

How to use this map
Use the 5 rows of the map to explore possibilities and plan for success in the five overlapping areas of career and academics. The map just offers suggestions – you don’t have to do it all! To make your own custom map, use the My Major Map tool.

Get started thinking about the future now – where do you want to go after your degree? Having tentative goals (like careers or grad school) while working through your degree can help with short-term decisions about courses and experiences, but also help you keep motivated for success.

Get the help you need
Queen’s provides you with a broad range of support services from your first point of contact with the university through to graduation. At Queen’s, you are never alone. We have many offices dedicated to helping you learn, think and do.

Ranging from help with academics and careers, to physical, emotional, or spiritual resources – our welcoming living and learning environment offers the programs and services you need to be successful, both academically and personally. Queen’s wants you to succeed! Check out the Student Affairs website for available resources.

MATHEMATICS AND STATISTICS
DEPARTMENT OF
Faculty of Arts and Science
Jeffrey Hall, Room 310
48 University Avenue
613-533-2390
mathstat.ugchair@queensu.ca
queensu.ca/mathstat

Why study in Kingston?
For over 175 years, our community has been more than a collection of bright minds – Queen’s has attracted students with an ambitious spirit. Queen’s has the highest retention rates, the highest graduation rates, and one of the highest employment rates among recent graduates. We are a research intensive university focused on the undergraduate experience. The BBC has identified Kingston as one of the GREATEST UNIVERSITY TOWNS in the world – and it is often awarded the safest city in Canada. It is a university city at the core; just a quick drive to Toronto, Montreal, Ottawa and even New York. A university with more clubs per capita than any other university in Canada, and a city with more restaurants per capita than any other city in North America – you will have the experience of a lifetime at Queen’s – and graduate with a degree that is globally recognized among the best.