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.
**GET THE COURSES YOU NEED**

- In first year you will have the chance to explore the foundations of Mathematics along with some electives.
- See the back page for specific courses to consider.
- Attend Majors Night in the Winter term to learn more about Plan options.

**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.

**GET CONNECTED WITH THE COMMUNITY**

- Volunteer on or off campus with different community organizations such as Best Buddies.
- Get involved with the Mathematics and Statistics Departmental Student Council (DSC).
- Do targeted networking with alumni working in careers of interest by joining the LinkedIn group Queen’s Connects. Check out Career Services networking workshops. Connect with professors at events or workshops hosted by the DSC.

**GET THINKING GLOBALLY**

- Prepare for work or studies in a multi-cultural environment by taking QUIC’s Intercultural Competency Certificate, and research possible immigration regulations.
- Speak to a QUIC 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.

**1ST YEAR**

- In first year you will have the chance to explore the foundations of Mathematics along with some electives.
- See the back page for specific courses to consider.
- Attend Majors Night in the Winter term to learn more about Plan options.

**2ND YEAR**

- Start going deeper into the discipline of Mathematics, while considering a minor and/or certificate such as Entrepreneurship, Innovation and Creativity.
- Attend Degree + in the Fall term to learn more about Certificates and Internship options.
- Want to make sure your academics are where you want them to be? Visit SASS (Student Academic Support Services) and the Writing Centre for some help.

**3RD YEAR**

- A chance to start grouping courses in areas of interest, or to keep it more general and explore many areas of Mathematics. Meet with an Academic Advisor to make sure you are on track and have planned out your courses for next year — for some ideas, see the back page.

**4TH OR FINAL YEAR**

- In fourth year you will have the chance to participate in research-based courses that can lead to Graduate School or to your future career path. Make sure to finish up all your courses for your major and your optional minor and/or certificate(s).

**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 Career Services skills workshop for help.
- Consider submitting your work to an undergraduate journal like Inquiry@Queen’s.
- Consider joining professional associations like the Canadian Applied and Industrial Mathematics Society, the Canadian Mathematical Society, and the Statistical Society of Canada.
- Join groups on LinkedIn reflecting specific careers or topics of interest in Mathematics.

**FUTURE PATHWAYS**

- For International students interested in staying in Canada can speak with an International Student Advisor.
- Consider submitting your work to an undergraduate journal like Inquiry@Queen’s.
- Consider joining professional associations like the Canadian Applied and Industrial Mathematics Society, the Canadian Mathematical Society, and the Statistical Society of Canada.

**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:

- Accounting
- Aerospace
- Auditing
- Banking
- Cryptanalyst
- Data scientist
- Financial analysis
- Mathematician
- Risk analyst
- Survey researcher

Taking time to explore career options, build experience and network can help you have a smooth transition to the world of work after graduation.
Sample Year by Year

**1ST YEAR**
- MATH 110/6.0
- MATH 120/6.0
- 18.0 units of electives

**2ND YEAR**
- MATH 210/3.0
- MATH 231/3.0
- MATH 280/3.0
- MATH 281/3.0
- 6.0 units from (STAT 268/3.0 and STAT 269/3.0) or (STAT 351/3.0 and STAT 269/3.0)
- 12.0 units of electives and/or minor

**3RD YEAR**
- 15.0 units from MATH, STAT, BIOM Options at the 300 level or above
- 15.0 units of electives and/or minor

**4TH YEAR**
- 15.0 units from MATH, STAT, BIOM Options
- 15.0 units of electives and/or minor

**Note:** Students may select some of their 300-level and 400-level courses to be focused in one area of mathematics or statistics. The following is a list of suggested areas; the courses that belong to those areas may be found in the ASC Calendar: Actuarial Focus, Biomathematics Focus, Business Focus, Communications Focus, Discrete Mathematics and Optimization Focus, Dynamic Processes Focus, Probability Focus, Pure Mathematics Focus, Statistics Focus, Teaching Focus.

Note that degree requirements are revised regularly. The most current requirements, including course lists and options, are found in the Academic Calendar at: QUartsci.com/academic-calendar