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.

Getting started thinking about the future – 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.

Why study in Kingston?

For 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 BSc has identified us as one of the GREATEST UNIVERSITY TOWNS in the world – and is often awarded the safest city in Canada. We are a university city at the core; just a quick drive to Toronto, Montreal, Ottawa and even New York. A university experience – 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. - students have the opportunity to take a wide range of technical courses to help prepare them for the many possible career destinations available. Such courses include: • Number Theory and Cryptography • Lagrangian Mechanics, Dynamics, and Control • Coding Theory • Stochastic Processes and Applications • Modern Control Theory • Information Theory • Optimization Theory and Machine Learning

A Common START
Queen’s is unique in offering a common First Year along with an open discipline choice. When you choose your program, you don’t have to worry about caps or quotas. Provided you pass all of your First Year courses, you are guaranteed a place in your engineering program of choice. Queen’s also offers Section 900, a special extended program for students struggling with First Year courses. Take things at a slower pace and recover in time for Second Year.

For more information, contact quip@queensu.ca or visit the Program Website.
**1ST YEAR**

- Queen’s Engineering first year is common – courses include: Physics, Chemistry, Calculus, Algebra, Graphics, Computing and Earth Systems Engineering.
- Also APSC 100, the entry level course in our Engineering Design and Practice Sequence (EDPS), focusing on problem solving, experimentation principles and finishing off with a team-based engineering project.
- Discipline selection will take place in February!

**2ND YEAR**

- Courses include: Algebraic Structures, Differential Equations, Advanced Calculus, Real Analysis, and Linear Algebra.
- You will take the second EDPS course – APSC 200.
- Your other 5-6 courses depend on your option.

**3RD YEAR**

- Courses include: Functions of a Complex Variable, Control, Mathematical Methods for Engineering & Physics, Engineering Design & Practice, and Engineering Economics.
- Your other 6-7 courses depend on your option.

**4TH OR FINAL YEAR**

- Courses include: Mathematics & Engineering Seminar and the Engineering Mathematics Design Project course.
- Your remaining courses will depend on your option!
- Complete all the required courses based on your academic plan and option, and you are set to graduate.

**Employability skills**

Your time at Queen’s will give you valuable skills to boost your employability, including:

- Proficiency in mathematics and quantitative analysis
- Understand the links between advanced mathematical concepts and their practical engineering applications
- Knowledge of theory and methods in applied mechanics, computing and communications, control and communications or robotics
- Ability to create and use sophisticated mathematical models
- Communicate quantitative ideas with clarity through writing and speaking
- Analytical mindset – develop mathematical habits of mind and a logical approach to problem solving
- Persistence – approach problem solving with persistence and a willingness to try multiple approaches
- Check out testimonials at queensu.ca/mathstats/undergraduate/prospective-undergraduate/mthe/testimonials

**What could I do after graduation?**

- Aerospace Systems
- Artificial Intelligence
- Biomedical Engineering
- Computer Engineering
- Computer Vision and Image processing
- Control Systems Engineering
- Cryptography
- Data Analysis and Data Mining
- Fibre and Laser Electro-Optics
- Financial Analysis
- Mechatronics
- Satellite Communications
- Securities
- Software Design

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

*Some careers may require additional training. Listed careers are suggestions only.

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

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