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 grow. 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 scientific process and the advancement of knowledge. We have additional requirements.

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 scientific process and the advancement of knowledge. We have additional requirements.

That is a degree from Queen’s.
**1ST YEAR**
Queen's Engineering first year is common – courses include: Physics, Chemistry, Calculus, Algebra, Graphics, Computing and Earth Systems Engineering.
Also APSC100, 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**
You will take the second EDPS course – APSC200.

**3RD YEAR**
You will also choose 3 units of Electives and must select one of the Engineering Economics courses.

**4TH OR FINAL YEAR**
Courses include: Applied Surface & Colloid Science, Quantum Mechanics, Design of Manufacturing Processes, and Electrochemical Engineering. Additionally, you will take a laboratory projects course and your 4th year Research Project course.
You will also choose at least 15 units of Electives, and you are set to graduate!

**GET THE COURSES YOU NEED**
- **1ST YEAR**
  - Look for first year positions in ENGSOC such as First Queen's Engineering and Commodities Association Design Team (QSDT), Fuel Cell Team (QFCT).
- **2ND YEAR**
  - Discipline selection will take place in February!
- **3RD YEAR**
  - You will take the second EDPS course – APSC200.

**GET CONNECTED WITH THE COMMUNITY**
- Volunteer on or off campus with different community organizations, such as ENGSOC EngWeek Committee, the ENGSOC External Relations Committee, or a local charity like Martha's Table.
- Get involved with the Engineering Society (ENGSOC) and the Queen’s Engineering Competitions Committee.

**GET THINKING глобально**
- Speak to a QUIP advisor or get involved in their programs, events and training opportunities.
- Prepare for work or studies in a multi-cultural environment by taking the Intercultural Awareness Training Certificate hosted by QUIP and FDISC and research possible immigration regulations.

**GET READY FOR LIFE AFTER GRADUATION**
- Grappling with program decisions? Go to the Orientation Evenings held by different Engineering departments and attend the various Career Fairs during the year.
- Get some help deciding by visiting Career Services.

**Employability skills**
*Your time at Queen’s will give you valuable skills to boost your employability, including:*
- Knowledge of chemistry and materials at a molecular level
- Knowledge of chemical engineering theory and methods
- Problem solving – adopt an analytical approach to problems facing chemists and chemical engineers
- Written and oral communication – communicate research ideas and information in reports and presentations
- Ability to use modern computer software tools for simulating and analyzing chemical processes
- Proficiency in mathematics
- Understanding of scientific research methods and data collection techniques
- Time and resource management
- Ability to work independently and in teams
- Sustainability and impact of engineering on society

**Where could I go after graduation?**
- Agricultural sciences
- Alternative energy technology
- Biomedical engineering
- Chemical/Process engineering
- Consulting engineers
- Environmental engineering
- Food science and technology
- Forensic science
- Fuels and petrochemicals
- Mineral Processing
- Occupational health and safety
- Patent law
- Pharmaceuticals
- Polymer/rubber/plastic technology
- Public and private research

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