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, and Queen’s wants you to succeed! Check out the Student Affairs website for available resources.

University TOWNS in the world – and is often awarded the safest city in Canada.

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 placement rates among the best.

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The curriculum will provide you with the in-depth understanding of organic, physical and analytical chemistry that is needed for early-stage design activities, when knowledge of basic principles is needed to create and/or advance new technology. The extensive training you acquire in core engineering principles such as fluid mechanics, thermodynamics and engineering economics will ensure that you can contribute equally well to late-stage design activities that involve detailed equipment specifications and financial analyses.

Get to know

In existence since 1895, the Engineering Chemistry program is renowned for producing graduates that have a firm grasp of fundamental science as well as the engineering tools that are needed to put this knowledge into practice.

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Engineering CHEMISTRY

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Accreditation by the Canadian Engineering Accreditation Board (CEAB) as an engineering program, and the Canadian Society for Chemistry (CSC) as a chemistry program, allows graduates to pursue professional careers in both disciplines – a truly unique benefit of an Engineering Chemistry degree.

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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!

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
- 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 only suggestions.

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