How to use this map
Use the S 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 thinking 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.

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 BBC has identified us as one of the GREATEST UNIVERSITY TOWNS in the world – and is often awarded the safest city in Canada.

Rangeing 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.

Get to know MECHANICAL ENGINEERING
The domain of mechanical engineers is truly vast because they are needed wherever machines are, and at every stage of design, manufacturing, construction and research. In this program you will study basic engineering courses as well as practical courses in machine design, robotics and manufacturing methods. Hands-on design is integral to this program. You may be involved in designing artificial joints, or even a Formula race car, depending on your specialization. If you choose the Materials option, you’ll study the exciting developments in materials and nanotechnology.

Mechanical Engineering

MAJOR MAP

MECHANICAL ENGINEERING

Acquire Skills. Gain Experience. Go Global. That is a degree from Queen’s.

me.queensu.ca
Mechanical Engineering MAJOR MAP *

BACHELOR OF APPLIED SCIENCE | BACHELOR OF APPLIED SCIENCE WITH PROFESSIONAL INTERNSHIP

GET THE COURSES YOU NEED

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 – APSC 200 Students decide to enroll into one of the following options: ME1 - General, ME2 - Materials, or ME3 - Biomechanics.

3RD YEAR


Your other courses will depend on your option and elective choice!

4TH OR FINAL YEAR

Courses include either Team Project: Conceive & Design or Multi-disciplinary Industry Engineering Design Project. ME3 students will also take the Team Project: Implement & Operate course.

Choose another 6 or 7 technical courses depending on your option, three complementary studies courses, 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
• Innovation and implementation skills embodied in the CIQD paradigm: Conceive, Develop, Implement and Operate
• Time and resource management
• Excellent technical writing and communication skills
• Engineering design skills
• Ability to apply science fundamentals to practical problems of mechanical engineering
• Experience and capability in employing various information sources for solving engineering problems
• Ability to work independently and in a team on a project

Where could I go after graduation?

Your degree could take you in lots of interesting directions including:

• Aviation and aircraft management
• Biomechanics
• Biomedical technology
• Business administration and management
• Industrial engineering
• Information technology
• Materials engineering
• Metallurgical engineering
• Nuclear engineering
• Occupational health and safety
• Product design
• Renewable resources and sustainability
• Research analyst
• Robotics
• Sound engineering
• Structural analyst

Taking time to explore career options, build experience, and network can help you have a smoother transition to the world of work after graduation. Please note: some careers may require additional training or education.

* some careers may require additional training. Careers listed here are only suggestions.

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