FACULTY OF
ENGINEERING &
APPLIED SCIENCE

THE FACULTY OF ENGINEERING AND APPLIED SCIENCE PROGRAMS

ELECTRONIC SYSTEMS ENGINEERING

Electronic Systems Engineering (ESE) looks at how circuits, electronic devices, and communication systems come together in the electronics we use in our daily lives. From microcircuits to the electronic elements inside personal and industrial technology, you'll learn how to design, develop, and manage communication, power, and manufacturing systems that keep us connected. Plus, you'll graduate knowing how to solve problems, manage projects, and communicate effectively.

- **Potential careers:** Work as an electronic systems engineer, embedded systems engineer, or in wired and wireless communications, control and automation, electric power, and more!
- **As an Electronic Systems Engineer, you could potentially make $108,631 per year*!**

ENVIRONMENTAL SYSTEMS ENGINEERING

Now more than ever, environmental challenges require ethical solutions, action, and change. While pursuing an Environmental Systems Engineering (EVSE) degree, you can merge processes in water, air, land, infrastructure, and industry with creativity to design, implement, and manage new systems. This way, you can design works, perform environmental impact and risk assessments, and analyze data to make well-informed decisions.

- **Potential careers:** Work as an air quality engineer, environmental consultant, environmental engineer, hydraulic engineer, water resource manager, or for government, the city engineering department, industrial or mining companies, and more!
- **As an Environmental Systems Engineer, you could potentially make $105,054 per year*!**

From labs to seminars, our programs are hands-on. Plus, Co-op Education and Internships will give you real-world experience while earning as much as **$8,000-$13,000** per semester.

SYSTEMS APPROACH

Our Systems Engineering approach combines business, economic, social, environmental, and professional awareness and focuses on the range of skills you need to be a professional engineer in the modern world.

THE FACULTY OF ENGINEERING AND APPLIED SCIENCE PROGRAMS

SOFTWARE SYSTEMS ENGINEERING

In our Software Systems Engineering (SSE) program, you'll learn to coordinate the creation, installation, maintenance, and growth of various software systems. From artificial intelligence and app development to multimedia and transactional systems, you'll be able to work with companies and organizations of all sizes. Plus, the software industry is always evolving, making it a faced-paced environment full of opportunities for continual growth.

- **Potential careers:**
  Work as a system administrator, software developer, software systems engineer, or in mobile computing, artificial intelligence, game development, and more!
- **As a Software Systems Engineer, you could potentially make $95,286 per year*!**

ENERGY SYSTEMS ENGINEERING

Our Energy Systems Engineering (ERSE) program offers you a one-of-a-kind opportunity to study a comprehensive energy-related curriculum that is the first of its kind. Other programs under the title "Energy" mainly focus on sustainable energy engineering with limited additions of energy storage courses – the ERSE program offers the Petroleum Engineering, Sustainable Energy Engineering, and Energy Transportation and Storage options simultaneously. The multidisciplinary curricula will allow you the flexibility of switching among the three options or graduate with the skills in more than one discipline required in the energy industry.

- **Potential careers:**
  Work as an energy engineer, drilling engineer, renewable energy engineer, pipeline engineer, process engineer, and more!
- **As an Energy Systems Engineer, you could potentially make $127,845 per year*!**

INDUSTRIAL SYSTEMS ENGINEERING

Our Industrial Systems Engineering (ISE) program will teach you the management and manufacturing techniques of modern resources. You will learn about the machinery that drives the process, the people who manage the process, making the process cost-effective, and quality control for reliable goods that provide the building blocks of products.

- **Potential careers:**
  Work as an industrial engineer, manufacturing engineer, process engineer, production engineer, design engineer, engineering consultant, and more!
- **As an Industrial Engineer, you could potentially make $111,522 per year*!**

*Based on the 2022 APEGS Salary Survey Summary Results. Visit https://www.apegs.ca/assets/apegs-salary-survey-summary-results-corrected.pdf for more information.

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