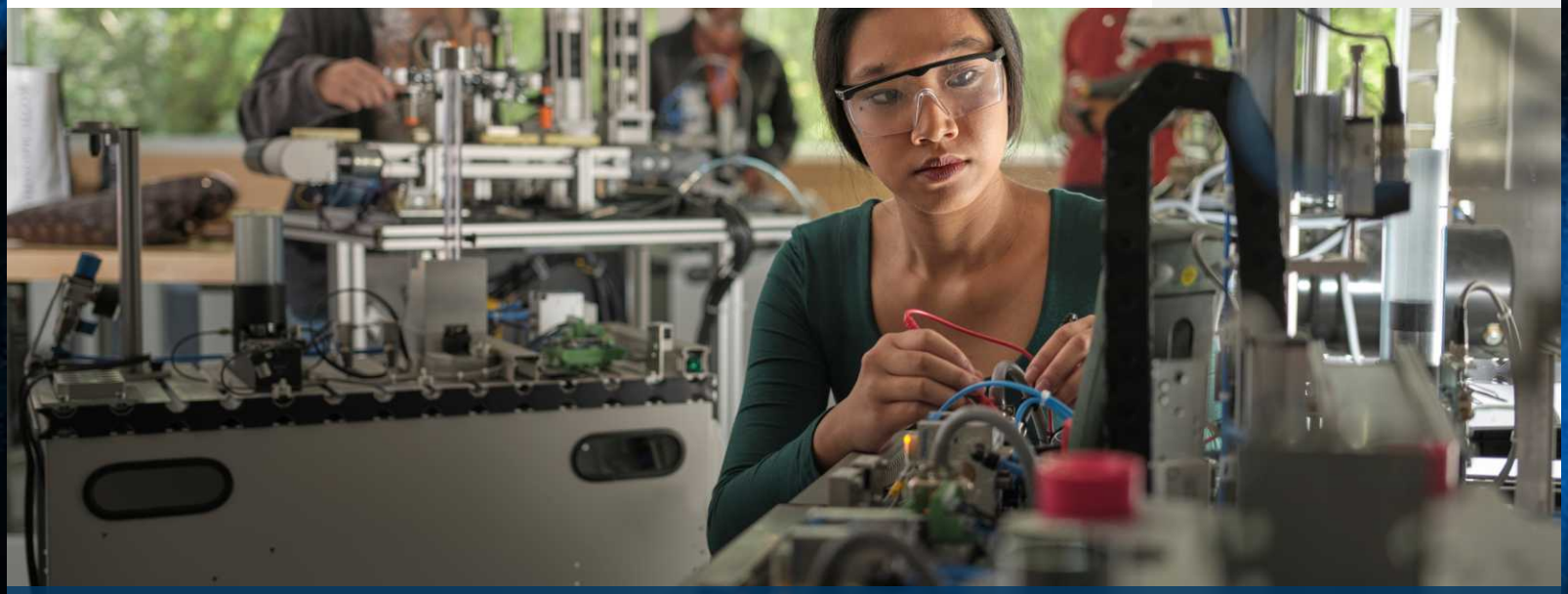
Sheridan

Honours Bachelor of Engineering (Electrical Engineering)

Honours Baccalaureate Degree | 4 years | Co-op Internship
Davis Campus (Brampton)

Scan here



Stand out from the crowd as a job-ready electrical engineering graduate.

Work towards your professional engineer (P.Eng.) designation

Sheridan's electrical engineering degree is the first Ontario college program of its kind to receive accreditation from the Canadian Engineering Accreditation Board (CEAB). Accreditation by the CEAB ensures that graduates have the academic qualifications necessary for licensure as professional engineers (P.Eng.) in Canada.

Conceive, Design, Implement and Operate

Theory is important, but so is the opportunity to put it into practice. Because our electrical engineering degree is one of the few in Canada that embrace the CDIO Initiative (Conceive, Design, Implement and Operate), you'll spend up to 50% of your class time working in labs. By using the systems you build, you'll learn what it takes to imagine and develop user-friendly solutions.

Specialize in Energy or Mechatronics

In the third and fourth years of your electrical engineering courses, you'll have the opportunity to specialize in one of two technical streams — energy or mechatronics. Our energy stream prepares you for work in the electrical utility sector. In the mechatronics stream, you'll gain the skills necessary to work in the fields of automation and instrumentation.

Career opportunities

Electrical engineering is recognized as one of the broadest and most versatile engineering disciplines, especially because it overlaps with: electronics; computer and software engineering; power and energy systems; robotics; telecommunications; biomedical engineering; embedded systems and IoT; and manufacturing/automation.

Here are some examples for potential jobs:

- Embedded Systems Engineer
- Electronics Design Engineer
- Machine Learning Engineer
- Digital Signal Processing (DSP) Engineer
- Artificial Intelligence (AI) Engineer
- Analog/Digital Systems Design Engineer
- Power Systems Engineer (Generation, Transmission, Distribution)
- Power Systems Protection and Control Engineering

Courses

Some of the courses you can expect to take in your program

- Power System Analysis
- Alternative Energy Systems
- Intelligent Power Systems
- Mechatronic System Design
- Embedded Software Fundamentals
- Microelectromechanical Systems (MEMS)

Fees

Fees displayed are for the first 2 academic semesters and include tuition, health insurance and ancillary charges. These are estimates only; subject to change. See website for details.

For Canadian students

- $8,808.83 CAD

For international students

- $22,709.78 CAD

How to apply:

5 easy steps

1. Find your program
2. Check the admission requirements
3. Apply online
4. Submit your documentation
5. Accept your offer

Ready to get started?

sheridancollege.ca/apply

International students

Find out more about...

- Post-graduation work permit (PGWP) eligibility
- Admission requirements
- English language proficiency requirements
- Fees and financial aid
- Provincial Attestation Letters (PALs)

sheridancollege.ca/international

Admission requirements

Program eligibility

Ontario Secondary School Diploma or equivalent, including the following required courses:

- English, Grade 12 (ENG4U)

plus

- Physics, Grade 12 (U); OR
- Chemistry, Grade 12 (U)

plus

- Mathematics, Grade 12 (U) (MHF4U) Advanced Functions, AND
- Calculus and Vectors (MCV4U)

plus

- Two additional Grade 12 credits at the U or M level
- Minimum 70% overall average

or

Two semesters of postsecondary education including required courses with a minimum 70% overall average.

English language proficiency

All applicants whose first language is not English must meet Sheridan's English Proficiency Requirements.

Refer to the website for full admission requirements.