

Baccalaureate Degree - 4 Years

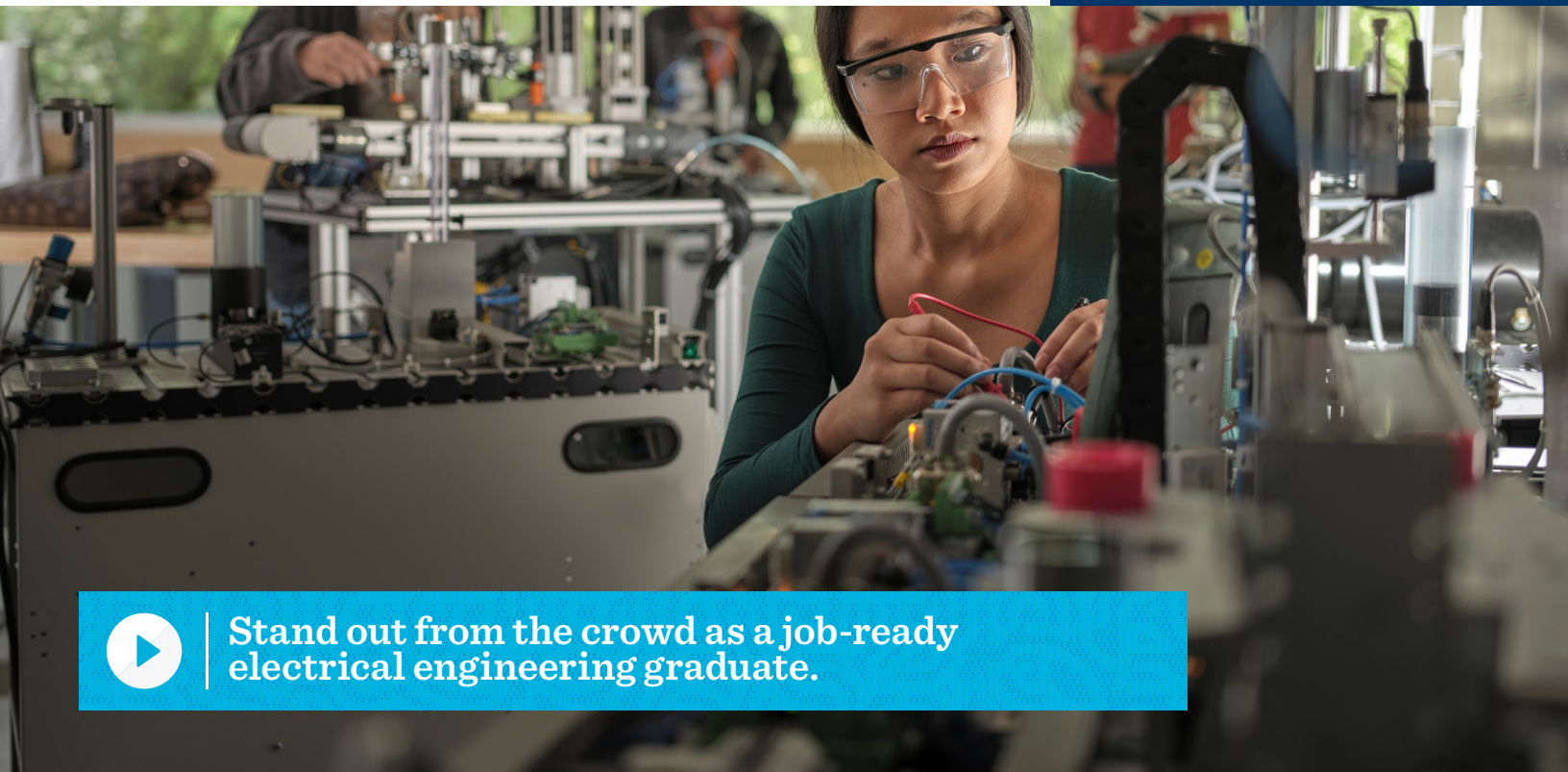
Program Code: PBENE

Full-time | Davis Campus | 4 yrs (8 semesters)

FACULTY OF APPLIED SCIENCE & TECHNOLOGY

# Bachelor of Engineering (Electrical Engineering)

Learn how to conceive, design, implement and operate electrical devices and systems through a balance of theory and hands-on experience.



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

## 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.

## Meet employers and gain real-world experience

Build working relationships with potential employers while you're still in school! Our program features a four-month electrical engineering internship after your second year, plus the option for a co-op work term of up to 16 months following your third year. These experiences, combined with cross-disciplinary projects in each year of your studies, ready you to work as soon as you graduate.

## 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)

(Completing both Physics and Chemistry is recommended, but not required.)

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
- Minimum 70% in each Math course

or

Two semesters of postsecondary education including required courses with a minimum 70% overall average, and 70% in each Math course.

Refer to the website for full admission requirements.

## Career Opportunities

As a graduate of Sheridan's electrical engineering degree program, you'll be prepared to perform electrical engineering work in the energy or automation sectors.

### FIELDS YOU COULD POTENTIALLY WORK IN INCLUDE:

Embedded Systems Design

Energy Distribution

Energy Generation

Energy Transmission

Instrumentation and Control

Mechatronics

Power Systems Protection and Control

Robotics

## Courses

### SOME OF THE COURSES YOU CAN EXPECT TO TAKE IN YOUR PROGRAM

Alternative Energy Systems

Capstone (Final Design) Project

Digital Systems Design

Intelligent Power Systems

Mechatronics System Design

Microcontroller Applications

Note: See website for specific terms and course listings.

## More information



**Website:**  
[sheridancollege.ca](http://sheridancollege.ca)



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There's no better way to get a sense of Sheridan than with a personal visit. Book a tour and see for yourself!



[tours.sheridancollege.ca](https://tours.sheridancollege.ca)