**Baccalaureate Degree**

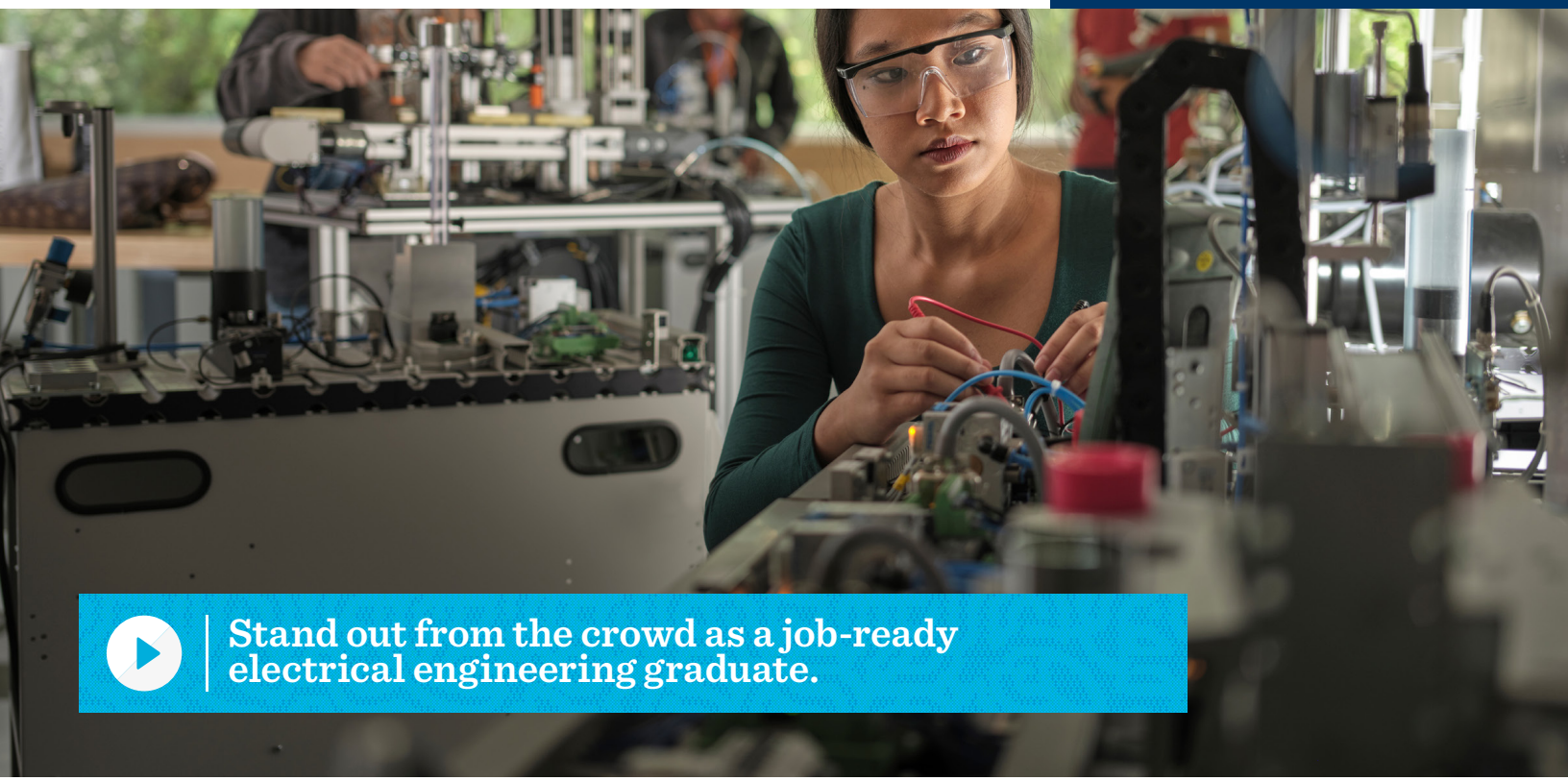
**Program Code: PBENE**

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.

### Sheridan Degree Entrance Scholarship

Sheridan is pleased to provide an Entrance Scholarship to select applicants in this degree program. View Sheridan Degree Entrance Scholarship details for eligibility criteria and more.

### Ministry Consent

Sheridan has been granted a consent by the Ministry of Training, Colleges and Universities to offer this degree for a seven-year term starting April 29, 2019 and subject to renewal thereafter. Application to the Ministry for renewal of the consent is a prescribed and cyclical requirement for degree programs at all Ontario colleges. Sheridan will ensure that all students admitted to the Bachelor of Engineering (Electrical Engineering) program during the period of consent will have the opportunity to complete the program within a reasonable time frame. Credentials earned during the period of consent remain valid, even if Ministry consent to offer the program is withdrawn in the future. Prospective students are responsible for satisfying themselves that the program and the degree will be appropriate to their needs (e.g. acceptable to potential employers, professional licensing bodies, or other educational institutions).

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

**Facebook:**
facebook.com/sheridaninstitute

**Twitter:**
@sheridancollege

## Visit us!

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**

Sheridan | Get Creative