

# Sheridan re-engineers its engineering degrees

## Various sectors indicate demand for professional engineers in near future

Rapid changes in industry are creating a demand for engineering graduates equipped to handle today's challenges upon being hired. Sheridan College's new bachelor of engineering programs are meeting that need by emphasizing hands-on training, says Amjed Majeed, associate dean of the institution's School of Mechanical and Electrical Engineering Technology.

"What's unique about both of these degrees is they were developed with the Conceive Design Implement Operate (CDIO) Initiative framework, which focuses on project-based learning," Majeed says of the bachelor of engineering (mechanical engineering) program, which started this fall, and bachelor of engineering (electrical engineering), which is set for a September 2020 launch. "We are proud to be the first college adopting CDIO in both mechanical and electrical engineering programs."

The framework creates a structure that will see students undertaking projects that link the content of multiple courses. If, for example, a student's semester includes the exploring engineering course as well as math and physics, project work will apply learning from all three. The difficulty of projects will increase as students make their way through the four-year offerings and culminate in a final capstone project. Thanks to CDIO, students will spend as much as 50 per cent of class time working in state-of-the-art labs.

"The majority of our workshops and labs are equipped with industry-standard advanced technology as we coordinate with major industry players such as Siemens and Festo directly, so students become familiar with equipment they'll encounter once they graduate," says Majeed.

Beyond working with industry-standard equipment,



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students also directly work with industry. Both mechanical and electrical engineering students will complete a mandatory four-month internship following their second year of study, with the option to complete an additional co-op experience following their third year.

In the last two years of their programs, learners will specialize in one of two technical streams — energy or

mechatronics.

"These two specializations in both mechanical and electrical engineering were chosen because of market needs," says Majeed. "The feedback we received from the utility and power as well as the robotics and automation sectors is that there will be a huge shortage of professionals in the near future."



## Hands-on from day one.

### Re-engineered engineering degrees.

An engineering degree at Sheridan is hands-on from day one. Our 4-year programs, with options for *mechanical* and *electrical* studies, are built for you – tomorrow's engineering entrepreneurs and innovators.

## OPEN HOUSE

Saturday, November 9, 2019

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