

FACULTY OF APPLIED SCIENCE & TECHNOLOGY

# Mechanical Engineering Technology – Design

This three-year advanced diploma provides you with hands-on training and real-world experience in mechanical engineering design.

94%

**Employer  
Satisfaction\***

with the knowledge and skills  
that our graduates possess.

**Ontario College Advanced Diploma**

**Program Code: PMEDD**

Full-time | Davis Campus | 3 yrs (6 semesters)



**Specialize your skillset and earn a  
credential employers value.**

## Get training for a specialized career

After building a strong foundation of mechanical engineering design knowledge in your first two years, you'll study more specialized subjects in your final two semesters. An understanding of niche concepts such as mechanical design and simulation, kinematics, building facilities layout, HVAC, sustainable design and design analysis may lead to better career opportunities when you graduate.

## Gain real-world experience and build connections

Sheridan's labs simulate the workplace, but they can't completely replicate it. Put your new mechanical engineering skills to work for our industry partners in two 12-month paid co-op terms: one after your third semester and another in your third year of studies. You'll also collaborate with peers to help our partners resolve a real-world issue in your capstone research project.

## Earn credits towards a degree or other certification

As a graduate of this program, you'll have the opportunity to transfer into the third year of Sheridan's Honours Bachelor of Mechanical Engineering degree (some bridge courses will be required.) You'll also have completed all of the academic requirements of personal certification with the Ontario Association of Certified Engineering Technicians and Technologists (OACETT).

## Admission Requirements

### Program Eligibility

**Ontario Secondary School Diploma or equivalent, including these required courses:**

- One English, Grade 12 (ENG4C or ENG4U)

plus

- Grade 12 Mathematics for College Technology (MCT4C) or Grade 11 Functions (MCF3M) or Grade 11 Functions and Relations (MCR3U) or any Grade 12 (U) Mathematics

or

### Mature student status.

Applicants who do not meet the admission requirements will be invited to complete pre-admission tests in mathematics and English.

Applicants asked to take the test are considered for admission to Term 1 contingent on receiving a minimum grade of 60% in both the pre-admission mathematics/English tests.

Applicants lacking the Mathematics admission requirement for this program may wish to upgrade their Mathematics prior to application. For upgrading information, please contact us.

Applicants may also consider applying to our Technology Fundamentals program. Successful completion of this program will meet the Mathematics requirement and will provide a broader sense of the Science and Technology fields.

### Applicant Selection

Eligible applicants will be selected on the basis of their previous academic achievement (the average of their six highest senior-level credits, including required courses), and/or results of pre-admission testing.

Applicants who do not meet the admission requirements for this program will be assessed and advised individually and may be considered for other, related programs.

### English Test

All applicants whose first language is not English must meet Sheridan's English proficiency requirements.

Refer to the website for full admission requirements.

## Career Opportunities

Our Mechanical Engineering Technology – Design program is built to give you the technical knowledge and hands-on experience today's employers look for. Upon graduation, you'll be qualified to perform engineering work in the industrial and manufacturing sectors.

### POTENTIAL FIELDS OF WORK INCLUDE:

Additive Manufacturing/CAD/CAM	Quality Control
Plant Operations	Design Engineering
Process Piping and HVAC	Design Analysis
Product Development and Testing	Manufacturing Engineering

## Courses

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

Design Simulation and Analysis	Engineering Capstone Project
Dynamics of Machines	Kinematics of Machines
Building Facilities Layout (HVAC)	Sustainable Design

Note: See website for specific terms and course listings.

## More information



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



**Facebook:**  
[facebook.com/sheridaninstitute](https://facebook.com/sheridaninstitute)



**Twitter:**  
[@sheridancollege](https://twitter.com/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](https://tours.sheridancollege.ca)