MECHANICAL ENGINEERING TECHNICIAN (METN)

Are you fascinated by the design and construction of mechanical devices?

Mechanical engineering technicians are essential spokes in the wheels of almost every industry by innovating, problem-solving, and providing insights into how all types of machinery work. Your computer is your go-to tool. You'll use programs like AutoCAD and SolidWorks to create and analyze designs, run simulations, and test how machines will operate. You'll explore manufacturing techniques like 3D printing and CNC machining throughout the program. On-campus labs will bring your 3D designs to life.

Upon graduation, you can boost your leadership and technical skills by applying to enter directly into the final year of Cambrian's Mechanical Engineering Technology (METY) program and open the door to more career opportunities.

Program highlights

MCH 1153

- · Computer-aided design (CAD) tools like AutoCAD and SolidWorks
- Explore manufacturing techniques like 3D printing and CNC machining
- Real-world community and applied research projects in state-of-theart labs
- Grads can apply for the final year of Cambrian's Mechanical Engineering Technology program
- Careers available in variety of industries including mining, health care, manufacturing, and more
- Graduates may be eligible to register as a Certified Technician (C.Tech) with the Ontario Association of Certified Technicians and Technologists (OACETT)

Program of study for 2025-26 Academic Year

Course	Title	Credits
Semester 1		
ENG 1002	College Communications	3
MEC 1003	Engineering Materials	3
MTH 1050	Algebra I	3
PHY 1112	Physical Principles I	4
MEC 1002	Introduction to Metrology and Geometric Dimensioning	3
CAD 1001	Engineering Graphics	3
One General Education Cours	se	
	Credits	19
Semester 2		
ENG 1754		
LING 1754	Technical Communication	3
MTH 1250	Technical Communication Algebra II	3
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MTH 1250	Algebra II	3
MTH 1250 PHY 1212	Algebra II Physical Principles II	3

Mechanical Lab I

Credits

Semester 3		
MTH 2325	Technical Math III	3
MTH 2332	Applied Calculus	3
MCH 1301	Dynamics of Machines	3
MCH 1303	Strength of Materials	5
MCH 1365	Industrial Design II	3
ELC 1013	Electrical Fundamentals	4
One General Education C	ourse	
	Credits	21
Semester 4		
CAD 1004	Advanced Solid Modelling	4
INT 1001	Instrumentation I	3
MCH 1002	Thermodynamics	3
MCH 1401	Advanced Structural Design	4
MCH 1402	Materials and Processes	3
MCH 1410	Codes and Standards	3
One General Education Co	ourse	
	Credits	20
	Total Credits	82

Admission requirements

For graduates of the new curriculum (OSS): Ontario Secondary School Diploma (30 credits) or equivalent or mature student status, including:

- · Any grade 12 English (C) or (U)
- · Any grade 12 mathematics (C) or (U) (MCT4C is highly recommended)

Program delivery

2025-2026 Fall term start

SEMESTER 1: Fall 2025 SEMESTER 2: Winter 2026 SEMESTER 3: Fall 2026 SEMESTER 4: Winter 2027

Winter term start

SEMESTER 1: Winter 2026 SEMESTER 2: Spring 2026 SEMESTER 3: Fall 2026 SEMESTER 4: Winter 2027

Employment opportunities

Graduates may find employment in areas such as:

- Consulting engineering firms
- · Manufacturing companies
- · Resource industries
- · Mechanical designer
- · Sales representative

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· Government departments