



Mechanical Engineering Technology

The Mechanical Engineering Technology program is a practical, hands-on, full-time, two-year diploma program that lets you develop strong technical, analytical, and problem-solving skills essential for a range of exciting careers in the challenging field of mechanical engineering.

During the common first year, you will be exposed to a variety of topics including foundational math and physics, Computer-Aided Design (CAD) and additional specialized courses to prepare you to enter into one of three specialized majors. Upon successful completion of the common first year, selection of your major will occur.

Although SAIT will attempt to help students complete the program major of their choice, grade points for specific courses will be used in the selection criteria for each major, in case of a seat shortage for specific majors.

The following majors are available for the Mechanical Engineering Technology program:

Design and Analysis	<ul style="list-style-type: none">• Mechanical system design• Vibration Analysis• Thermodynamics• Fluid Mechanics	Specialized skills include design, analysis and troubleshooting of various systems including mechanical, thermal and fluids.
Design and Development	<ul style="list-style-type: none">• Model Making• Prototyping• Ergonomics	Specialized skills include product design and development, prototyping, ergonomics and industrial design.
Design and Automation	<ul style="list-style-type: none">• Automation Systems Design• Control Systems (PLC)• Industrial robotics	Specialized skills include automated systems design and maintenance, manufacturing controls and robotics.

In all three available majors, a focus will be placed on professionalism, creativity, teamwork, effective communication and collaboration. Each student will also participate in a major capstone project that will address a real-world industry challenge.

Accreditation

All three majors are nationally accredited by the Canadian Council of Technicians and Technologists (CCTT). Graduates may apply for their Certified Engineering Technologist (GET) designation after two years of appropriate work experience.

While attending SAIT, Mechanical Engineering Technology students can become members of the following societies:

- Association of Science and Engineering Technology Professionals (ASET).
- Society of Automotive Engineers (SAE).
- American Society for Quality (ASQ).

Credential

After successfully completing this program, graduates will receive a SAIT diploma in either:

- Mechanical Engineering Technology - Design and Analysis
- Mechanical Engineering Technology - Design and Development
- Mechanical Engineering Technology - Design and Automation

Admission requirements

Admission dates

Applications are accepted until the program start date but are subject to change.

- **Fall 2022 start:** applications are accepted from Oct. 6, 2021.
- **Winter 2023 start:** applications are accepted from March 30, 2022.

Program requirements

Completion of the following courses or equivalents:

- At least 60% in Math 30-1 or Pure Math 30, or at least 75% in Math 30-2, AND,
- At least 60% in English Language Arts 30-1 or English Language Arts 30-2, AND,
- At least 60% in Physics 20 and Chemistry 20, or at least 60% in Science 30.

All applicants must demonstrate [English language proficiency](#) prior to admission, including students educated in Canada.

SAIT accepts [high school course equivalents](#) for admission. If you don't meet the requirements, consider [Academic Upgrading](#).

SAIT evaluates international documents for admissions. After you've applied, consider our [international document assessment](#) service if your education is from outside of Canada. SAIT may also accept courses completed at certain international post-secondary institutions. Find more information [here](#).

Direct entry: Four-step process

Step 1: Read the program information to see the qualities needed for student success.

Step 2: Ensure that you meet all of the admission requirements listed above.

Step 3: [Apply](#) and submit your [transcripts](#) and/or anticipated final grades.

- Admission will be extended on a first-qualified, first-offered basis until the program is full.

Step 4: Log in to [mySAIT.ca](#) to check your admission status and monitor changes to your [application status](#).

Failure to meet anticipated final grades will result in offers being rescinded.

Costs 2022/23

Domestic tuition and fees

Cost per credit: \$190

Year	Number of semesters	Tuition fees	SAIT fees	Saitsa fees*	Total
1	2	\$5,700	\$916	\$553	\$7,169

Year	Number of semesters	Tuition fees	SAIT fees	Saitsa fees*	Total
2	2	\$5,700	\$916	\$553	\$7,169

International tuition and fees

Cost per credit: \$594.83

Year	Number of semesters	Tuition fees	SAIT fees	Saitsa fees*	Total
1	2	\$17,844.90	\$916	\$553	\$19,313.90
2	2	\$17,844.90	\$916	\$553	\$19,313.90

*Maximum fee. Actual fees may be less and are based on the number of credits a student takes per semester and whether they opt-out of health and dental benefits.

SAIT fees

- Campus athletic and recreation fee: \$196
- Universal transit pass (Upass): \$320
- Student support fee: \$200
- Student technology fee: \$200

Saitsa fees

Student Association fee

- Maximum: \$291

This is the maximum amount the student will pay. Actual fees may be less and are based on the number of credits the students take per semester.

Health and dental fees

- Health plan: \$127
- Dental plan: \$135

Students with existing health and/or dental plans can opt-out. Please refer to [Saitsa's website](#) for information.

For more information on health and dental benefits for international students, please contact the [International Centre](#).

Books and supplies*

Books and supplies are approximately \$1,500 per year.

For an estimate of the costs associated with purchasing a computer that meets the program's hardware and software requirements, see our [computers and laptops page](#).

Learn more about [tuition and financial aid](#).

*Tuition, fees, books and supply costs are subject to change.