



Electronics Engineering Technology

Learn how to design, analyze and troubleshoot electronic circuits and systems for a career as an electronics engineering technologist, working in areas such as GPS-based systems, surveillance and wireless communication systems.

The Electronics Engineering Technology program is an analysis and design-oriented program with emphasis given to electronic circuits, systems and sub-systems. This program prepares graduates with professional, technical and practical skills that include problem-solving, research, design, prototyping, implementation, installation and testing of electronics-based systems.

Specific studies include digital and analog applications, electronic controls, computer-based circuit design and simulation, microprocessor systems, RF communications and computer-enhanced test and measurement systems. Areas of employment may include GPS-based systems, measurement, control, security and surveillance and wireless communication systems.

Graduates of the Electronics Engineering Technology program have the relevant technical, applied and professional skills that employers seek in this dynamic industry sector. Graduates may find employment as an electronic engineering technologist assisting in research, design, development of prototyping of electronic-based circuits and systems. They will also have the opportunity to continue their studies toward an engineering degree. SAIT offers articulation agreements with a variety of universities across Canada.

Working with electrical engineers who provide the conceptual design, the electronics engineering technologist will assist with the practical aspects of circuit design and analyze circuit performance. Electronics engineering technologists may design and/or evaluate the performance of the circuit using a variety of analysis methods. The technologist also works closely with technicians who fabricate, troubleshoot, measure and calibrate the systems.

The learning environment incorporates instructor-led instruction and discussions enhanced with computer-based presentations and simulation software. Most classes integrate time in the lab, allowing students to apply their knowledge in a real, practical environment.

Is this the right fit for me?

Success in this area of study requires an interest in physics and a strong foundation in mathematics. Electronics Engineering Technologists apply science to practical applications. They learn to think like engineers while using their experience in manufacturing and analysis. Lifelong learning is an expectation for career growth.

Characteristics of a successful student in this program include:

- enjoys solving problems using a logical, analytical and systematic approach
- being patient, persistent, meticulous, innovative and creative when trying to figure things out
- working independently with little supervision but also capable of performing as a vital member of a team of professionals
- enjoys keeping up-to-date on new technological developments and learning new skills
- being able to learn how something works from a written manual, observations or experimenting
- having a working knowledge of the MS Office Suite would be an asset.

Accreditation

Technology Accreditation Canada (TAC) accredits this program at the Engineering Technologist level.

After two years of suitable industrial experience, graduates are eligible for membership in The Association of Science and

Credentials

After successfully completing this program, graduates will receive a SAIT diploma in Electronics Engineering Technology.

Admission requirements

Application dates

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

- **Fall 2022 start:** applications opened on Oct. 6, 2021.

Program requirements

Completion of the following courses or equivalents:

- At least 60% in Math 30-1 or 75% in Math 30-2,
- At least 60% in English Language Arts 30-1 or English Language Arts 30-2
- At least 60% in Physics 20

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.

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](#) to Electronics Engineering Technology 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: Find out how to monitor your application status [after you apply](#).

Communication during admission

Email is the primary source of communication during the selection process. Ensure your personal email account is managed appropriately to receive our emails, files and communications. We recommend you add the macphail.students@sait.ca domain to your safe senders' list or you risk missing critical email messages.

Costs 2022/23

Domestic tuition and fees

Cost per credit: \$224

Year	Number of semesters	Tuition fees	SAIT fees	Saitsa fees*	Total
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Year	Number of semesters	Tuition fees	SAIT fees	Saitsa fees*	Total
1	2	\$6,720	\$916	\$553	\$8,189
2	2	\$6,720	\$916	\$553	\$8,189

International tuition and fees

Cost per credit: \$698.33

Year	Number of semesters	Tuition fees	SAIT fees	Saitsa fees*	Total
1	2	\$20,949.90	\$916	\$553	\$22,418.90
2	2	\$20,949.90	\$916	\$553	\$22,418.90

*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 \$1,000 - \$1,500 per full-time 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.