



# Civil Engineering Technology - Construction Management Major

**SCHOOL OF CONSTRUCTION**

## Overview

Our Civil Engineering Technology program is designed to forge professionals equipped to design, draft, cost, and manage the construction of various infrastructure projects, including buildings, roads, bridges, and more.

This two-year, intensive program offers hands-on learning combined with theoretical knowledge and the use of advanced technology. Embark on a journey encompassing all facets of civil engineering design and construction management, from foundational building science to 2D and 3D drafting, supported by the latest virtual and augmented technology.

Apply your learning in real-world construction engineering scenarios, mastering structural and geotechnical engineering principles, construction estimating, and project scheduling.

The program offers fall, winter, and spring intakes to accommodate your schedule. The program structure adjusts depending on your start date, allowing for summer breaks or continuous study with short breaks.

Ahead of your second year, you'll select one of three specialized majors - construction management, municipal, or virtual design and construction. While we'll do our best to accommodate your preference, selection for each major is determined by the cumulative grade point average (GPA) from your first year, should a specific specialization be in high demand.

## Construction Management major

Construction Management majors focus on learning how to:

- create detailed building designs
- accurately estimate project costs
- effectively manage the execution of construction projects from start to finish.

You'll be prepared for a variety of civil engineering jobs and roles in residential and commercial construction, from site management to project leadership positions. The curriculum is built with industry input, ensuring your acquired skills are relevant and sought after.

This diploma program is not just about gaining a credential; it's about building a career. If you aspire to be at the forefront of the construction industry, innovating and leading in civil engineering design and construction management, this program is your gateway.

## Traits, skills and aptitudes

Those in civil engineering technology tend to be innovative, methodical, and directive.

You need:

- math and science skills, specifically an aptitude for physics
- organizational abilities
- an analytical mind
- problem-solving skills
- the ability to work alone
- the flexibility and commitment to work overtime when required to meet deadlines
- the ability to communicate effectively with project managers and contractors.

You should enjoy taking a systematic approach to your work, finding innovative solutions to problems, and providing direction to others.

## Academic path

The opportunity to advance your education by transferring into this program or gain credit for previous postsecondary courses may be available.

Graduates of this program with a minimum 2.3 cumulative GPA (67% or C+) may apply for SAIT's Bachelor of Science Construction Project Management program.

Learn more about [program and institution transfer options](#).

## Professional designations and certifications

This program is nationally accredited, at the technologist level, by Technology Accreditation Canada.

Graduates are eligible to join The Association of Science and Engineering Technology Professionals in Alberta (ASET).

The Canadian Institute of Quantity Surveyors recognizes the program as training for qualified estimators and quantity surveyors.



## Credentials

After successfully completing this program, you'll receive a SAIT Civil Engineering Technology diploma with a major in Construction Management.

## Practicum, Co-op and Work Integrated Learning

You'll participate in a capstone project where you'll develop a proposal through research, data collection and analysis and present your findings to faculty and industry guests.

# Admission requirements

## Applicants educated in Canada

All applicants must demonstrate [English language proficiency](#) and meet the following requirements or equivalents.

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

SAIT accepts [high school course equivalents](#) for admission for applicants educated outside Alberta.

## Applicants educated outside of Canada

All applicants who were educated outside of Canada must demonstrate English Language proficiency and provide proof they meet the program admission requirements with an international document assessment. [Find out what educational documents are accepted and assessment options](#).

SAIT may also accept courses completed at certain [international post-secondary institutions](#).

# Costs

## 2024/25 tuition and fees

The following costs are effective as of July 1, 2024.

## Domestic Students

| Year | Number of semesters | Tuition fees | Additional fees | Total per year |
|------|---------------------|--------------|-----------------|----------------|
| 1    | 2                   | \$6,300      | \$1,608         | \$7,908        |

| Year               | Number of semesters | Tuition fees | Additional fees | Total per year  |
|--------------------|---------------------|--------------|-----------------|-----------------|
| 2                  | 2                   | \$6,000      | \$1,608         | \$7,608         |
| <b>Total cost:</b> |                     |              |                 | <b>\$15,516</b> |

The estimated total cost of tuition and fees for domestic students is based on the recommended course load per year.

## International Students

| Year               | Number of semesters | Tuition fees | Additional fees | Total per year     |
|--------------------|---------------------|--------------|-----------------|--------------------|
| 1                  | 2                   | \$19,876.50  | \$1,608         | \$21,484.50        |
| 2                  | 2                   | \$18,930     | \$1,608         | \$20,538           |
| <b>Total cost:</b> |                     |              |                 | <b>\$42,022.50</b> |

The estimated total cost of tuition and fees for international students is based on the recommended course load per year.

## Books and Supplies

Books and supplies are approximately \$1,000 - \$1,500 per full-time year.

This is a bring-your-own-device program with power-user computer hardware and software requirement. See the specific requirements on our [computers and laptops page](#).

Textbooks and reading materials will be discussed with your instructors during the first week of classes.

## Required personal protective equipment (PPE)

The industry-approved PPE you'll need will be discussed during your first few days of classes.

You'll need CSA-approved, above-ankle steel-toe boots, a hard hat, and safety glasses for labs and site visits.

## 2023/24 tuition and fees

The following costs are effective until June 30, 2024.

### Domestic Students

| Year               | Number of semesters | Tuition fees | Additional fees | Total per year     |
|--------------------|---------------------|--------------|-----------------|--------------------|
| 1                  | 2                   | \$6,142.50   | \$1,570         | \$7,712.50         |
| 2                  | 2                   | \$5,850      | \$1,570         | \$7,420            |
| <b>Total cost:</b> |                     |              |                 | <b>\$15,132.50</b> |

The estimated total cost of tuition and fees for domestic students is based on the recommended course load per year.

### International Students

| Year | Number of semesters | Tuition fees | Additional fees | Total per year |
|------|---------------------|--------------|-----------------|----------------|
| 1    | 2                   | \$19,492.83  | \$1,570         | \$21,062.83    |

| Year               | Number of semesters | Tuition fees | Additional fees | Total per year     |
|--------------------|---------------------|--------------|-----------------|--------------------|
| 2                  | 2                   | \$18,564.60  | \$1,570         | \$20,134.60        |
| <b>Total cost:</b> |                     |              |                 | <b>\$41,197.43</b> |

The estimated total cost of tuition and fees for international students is based on the recommended course load per year.