

# CIVIL ENGINEERING TECHNOLOGY

221.B0



**3 YEARS**

[www.dawsoncollege.qc.ca/civil-engineering-technology](http://www.dawsoncollege.qc.ca/civil-engineering-technology)

**If you would like to:**

- ☐ Prepare for a rewarding career as a civil engineering technologist
- ☐ Learn in a hands-on setting in small class sizes
- ☐ Supervise construction site operations
- ☐ Analyze civil engineering projects
- ☐ Learn about environmental engineering
- ☐ Train for a career in a thriving industry

**Then the Civil Engineering Technology Program could be for you.**



## **Certification**

Ordre des technologues professionnels du Québec (OTPQ)

The Civil Engineering Technology Program will prepare you with the knowledge and skills necessary to work as a Civil Engineering Technologist. You will learn to interpret engineering drawings and estimate quantities and workforce costs, materials and equipment required for construction projects. You will acquire surveying skills, evaluate the condition of infrastructure, design and layout of existing structures and new rehabilitation projects. In a province undergoing massive investment in renewal, your expertise will help make a difference in the safety and efficiency of cities' infrastructure.



**Being a Civil Engineering Technology student at Dawson doesn't only mean lectures and exams. It also means great friends, teachers, services and activities.**

— Jahn S.

### What will you learn?

- To prepare engineering drawings using both digital and traditional drafting techniques
- To develop project management skills such as construction schedules and cost control
- To assess the environmental impact of various construction projects
- To perform basic design calculations for steel, concrete and wood structures
- To plan, design, construct and manage various infrastructure projects
- To estimate and prepare construction proposals and bids

### Where will this program lead you?

Graduates of the program often pursue careers as civil engineering technologists in areas such as engineering design offices, municipalities, construction companies (as general & specialty contractors) and in the manufacturing and sales of engineering materials. There is strong demand for graduates in the field and the long-term outlook for employment opportunities is positive.

Other graduates continue their education at the university level in Engineering, where they enter undergraduate programs with the advantage of having a great deal of practical engineering experience, which can only be obtained in a technical program like Civil Engineering Technology.

### What do you need to apply?

- A Diploma of Secondary Studies (DES) or academic background judged equivalent to the DES
- Sec V Mathematics - Technical & Scientific option or Science option 564-506 or 565-506
- Sec IV Environmental Science & Technology or Environmental Science 558-404 or 558-402

### What else should you know?

Students are qualified as Civil Engineering Technologists and are eligible for membership in the *Ordre des technologies professionnels du Québec* (OTPQ).

### Application Deadline

March 1

### DID YOU KNOW?

Students entering this program are eligible for *Bourses Perspective* scholarships. These \$1,500 scholarships will be awarded to students after each successful full-time term, for a total of \$9,000 for a three-year program.

Information about how to apply can be found online by searching for "Québec Perspective Scholarship Program" in your browser.

## LIST OF SPECIFIC COURSES

All students must also take General Education courses such as English, French, Humanities and Physical Education, in addition to complementary courses.

### YEAR 1

| Term 1   |
|--|
| <ul style="list-style-type: none"><li>■ Introduction to Applied Mathematics</li><li>■ Civil Engineering Drawings I</li><li>■ Construction I</li><li>■ Surveying I</li><li>■ Health and Safety</li><li>■ Technology of Aggregates</li></ul> |

### YEAR 2

| Term 3   |
|--|
| <ul style="list-style-type: none"><li>■ Civil Engineering Physics II</li><li>■ Civil Engineering Drawings II</li><li>■ Concrete</li><li>■ Specifications</li><li>■ Municipal Engineering I</li></ul> |

### YEAR 3

| Term 5  |
|---|
| <ul style="list-style-type: none"><li>■ Estimating II</li><li>■ Project Management I</li><li>■ Roads I</li><li>■ Reinforced Concrete</li><li>■ Stage Evaluation</li><li>■ Soils II</li><li>■ Physical Environment</li></ul> |

| Term 2   |
|--|
| <ul style="list-style-type: none"><li>■ Civil Engineering Physics I</li><li>■ Soils I</li><li>■ Construction II</li><li>■ Surveying II</li></ul> |

| Term 4   |
|--|
| <ul style="list-style-type: none"><li>■ Estimating I</li><li>■ Bituminous Mix</li><li>■ Structural Analysis</li><li>■ Stage Preparation</li><li>■ Municipal Engineering II</li></ul> |

| Term 6   |
|--|
| <ul style="list-style-type: none"><li>■ Steel Structures</li><li>■ Wood Structures</li><li>■ Inspections</li><li>■ Roads II</li><li>■ Building Systems</li><li>■ Project Management II</li><li>■ Engineering &amp; Environment</li></ul> |