

## ADMISSION REQUIREMENTS

- **Diploma of Secondary Studies (DES), including:**

- » Secondary V Language of Instruction
- » Secondary V Second Language
- » Secondary IV Science
- » Secondary IV Mathematics
- » Secondary IV History

or academic background judged equivalent to the DES.

Students with a DES missing any of the above subjects may be admitted, space permitting, but may be required to complete remedial courses.

- **Mathematics 564-406 or 565-406\***
- **Physics 553-504\***

\*For students graduating before June 2010 or from an Adult Education Centre, the prerequisites are Physics 534 and Mathematics 526.

## APPLICATION DEADLINE

- **March 1 (for Fall semester)**

The program begins in the Fall semester; it does not admit new students in the Winter term.

## FOR MORE INFORMATION

Please contact **(514) 931-8731, ext. 5028**

Or visit: [www.dawsoncollege.qc.ca](http://www.dawsoncollege.qc.ca)

## Mechanical Engineering Technology

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### ABOUT DAWSON COLLEGE

Dawson College is located in downtown Montreal in a historic building on 12 acres of green space. The first English-language institution in the Quebec CEGEP network is today one of the largest with approximately 10,000 students enrolled in more than 50 programs and profiles of study. The College occupies an entire city block and is linked directly to the Atwater Métro station.

### FEES

Tuition is free for Canadian citizens or landed immigrants with permanent residence in Quebec taking at least four courses per semester. A non-refundable \$30 application fee and about \$200 in student fees are charged. Books and supplies cost between \$500 and \$1,000 per year, although visual arts supplies are more costly. Financial aid is available; contact **(514) 931 8731 ext. 1186** for more information. Fees are subject to change without notice.

Dawson College

## Mechanical Engineering Technology



**D** I S C O V E R

### Dawson College

3040 Sherbrooke St. West  
Montreal Quebec H3Z 1A4  
Canada

**T** 514 933 1234

[www.dawsoncollege.qc.ca](http://www.dawsoncollege.qc.ca)

**D** I S C O V E R

**DAWSON**  
COLLEGE

Every student must take four English courses, two French courses, three Humanities courses, three Physical Education courses and two complementary courses to receive a CEGEP Diploma.

## PROGRAM INFORMATION

Mechanical Engineering Technology is a three-year program that provides students with practical mechanical engineering training. It is the only program of its kind among anglophone colleges in Quebec.

The program focuses on theory and practice in the design, construction, installation, control and use of machines and mechanical devices of all kinds, and in the manufacturing of goods. In your final year, you will choose between the following two options:

- **Mechanical Design (applying basic principles of design - with the help of Computer-Aided Design - to the development of manufacturing equipment and processes)**
- **Automated Manufacturing (using robotics, PLCs and micro-processor-controlled equipment in manufacturing applications requiring automation).**

Among the skills you will acquire in the program are:

- **understanding the relationship and role of all parts/ components in a mechanical assembly**
- **interpreting mechanical drawings**
- **using industrial grade software**
- **programming a Numerical Control (NC) lathe and mill**
- **preparing detail and assembly drawings**
- **designing mechanical devices of moderate complexity.**

Graduates may enter the job market directly or choose to pursue further studies in engineering at university. Depending on the university chosen, students may be granted credits toward their degree program or additional prerequisite courses may be required.

## CAREER OPPORTUNITIES

Graduates of this program typically work in:

- **the design, development and implementation of engineering projects**
- **mechanical drafting or Computer-Aided Design and Drafting (CADD)**
- **estimating, inspecting and testing**
- **research and development**
- **technical sales**
- **the servicing and testing of materials and components**
- **the installation and maintenance of automation equipment, including robotics, Numerical Control and Computer-Aided Manufacturing (CAM).**

## Mechanical Engineering Technology

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### Mechanical Engineering Technology Course List

#### Year 1 Term 1

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- **Engineering Mathematics I**
  - **Introduction to CIM**
  - **Introduction to Mechanical Engineering Technology**
  - **Metrology**
  - **Engineering Graphics**
  - **Engineering Materials**
- Physical Education**  
**English**
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#### Year 1 Term 2

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- **Engineering Physics I**
  - **Machine Tools I**
  - **Mechanical Components I**
  - **Quality Control**
  - **CAD I**
  - **Heat Treatment**
- French**  
**English**
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#### Year 2 Term 3

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- **Engineering Mathematics II**
  - **CAD II**
  - **Machine Tools II**
  - **Manufacturing Processes**
- Physical Education**  
**Humanities**  
**English**
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#### Year 2 Term 4

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- **Engineering Physics II**
  - **Tooling Manufacturing**
  - **CNC Operation**
  - **Mechanical Components II**
  - **CAD III**
- Humanities**  
**French**
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### Mechanical Engineering Technology Course List continued

#### Year 3 Term 5 - Mechanical Design Specialization

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- **Pneumatic Systems**
  - **Machine Design**
  - **Sheet Metal Design**
  - **Design Modification**
  - **CAD IV**
  - **System Design I**
- Physical Education**  
**Complementary**
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#### Year 3 Term 6 - Mechanical Design Specialization

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- **Emerging Technologies**
  - **3D Modelling**
  - **System Design II**
  - **Design Project**
- Humanities**  
**English**  
**Complementary**
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#### Year 3 Term 5 - Automated Manufacturing Specialization

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- **Design Modifications**
  - **Production Tooling**
  - **Production Planning**
  - **NC Lathe**
  - **Automated Circuits I**
  - **Industrial Automation**
- Physical Education**  
**Complementary**
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#### Year 3 Term 6 - Automated Manufacturing Specialization

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- **Graphic Programming**
  - **Automated Circuits II**
  - **Industrial Systems**
  - **Manufacturing Project**
- Humanities**  
**English**  
**Complementary**
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