

## Bridging into the B.Eng.-Mechanical Systems Engineering (MSE) at Conestoga College

- Earn a degree in engineering
  - 2 or 3 years completion
  - Co-op experience
  - Project-based learning
- Fully accredited by the Canadian Engineering Accreditation Board – [Engineers Canada](#)
- Become a professional engineer with [PEO](#)

### Bridging Opportunities for 3 Year Mechanical Technology (Advanced) Diploma Programs:

- Must have a 75% (GPA 3.0) average in your diploma (recommendations regarding upgrading available upon request)
- Must have a university/college level calculus course including differential and integral calculus completed as part of the diploma program or prior to the bridging term (e.g. MATH2130 offered at Conestoga during the May – August semester or MATH2400 offered by Continuing Education, Technical Calculus I offered online by [Ontario Learn](#))

### General Time-frame

During September YY-1 to mid-March YY (**YY= year of the bridging module start**):

1. Send Transcript & Resume for analysis by e-mailing the Admissions Officer Cheri Atkins [catkins@conestogac.on.ca](mailto:catkins@conestogac.on.ca)
2. Apply to the B.Eng.-MSE program through Conestoga Registrar (for Conestoga students only) or through [OCAS](#) \*(for students from other colleges) by e-mailing to Kerry Porter or Cheri Atkins, [kporter@conestogac.on.ca](mailto:kporter@conestogac.on.ca), [catkins@conestogac.on.ca](mailto:catkins@conestogac.on.ca) ; **the application deadline is March 30th YY. For the appropriate MSE level for which to apply, see Table 1 at the end of the document.**

During April – May YY:

3. Interview with the Pathway Admission Panel (two MSE faculty and the Program Coordinator).

During mid-July YY register in the bridging courses and pay the fees following the information received via e-mail. Contact Conestoga Registrar's office, [kporter@conestogac.on.ca](mailto:kporter@conestogac.on.ca).

The bridging term courses are delivered September to December YY. Please note that depending upon the transcript analysis, a student may be required to bridge either into level 4 or into level 7 of MSE in the winter term (YY+1). Depending upon the resume analysis or the previous Co-op experience, a student may be required to complete co-op work term(s) at the end of the program (to graduate from MSE three co-op work-terms are required).

#### Financial Details:

The B.Eng.-MSE program is eligible for OSAP funding. The 4 Month Bridge Module is NOT eligible for OSAP. The average cost of the Bridge is \$3,100. (2018 figure), however this varies based on the number of assigned courses.

#### Laptop Computer Requirement:

The B.Eng.-MSE program is a laptop program and students will be required to have a laptop based on program specifications prior to the program start in September. More information is available on the [college web site](#) – updated before the start of the fall term each year.

#### Core Bridging Courses (required for all pathways):

1. Introduction to Chemistry (if Chemistry was not taken in High School)
2. Chemistry
3. Advanced Calculus
4. Numerical Methods
5. Linear Algebra
6. Project Management Methods & Tools
7. Physics
8. Physics – Mechanical

Exemptions may apply. Additional courses, depending on your background will be evaluated based on a transcript analysis.

#### Contact Information:

##### **B.Eng.-MSE Program Coordinator**

Andrew Campbell, P.Eng.

[acampbell@conestogac.on.ca](mailto:acampbell@conestogac.on.ca)

(519) 748-5220 x2233

**B.Eng.-MSE Program Coordinator (Spring Term)**

Florin David, P. Eng.

[fdavid@conestogac.on.ca](mailto:fdavid@conestogac.on.ca)

(519) 748-5220 x2288

**Admissions Officer – Conestoga College**

Cheri Atkins

[catkins@conestogac.on.ca](mailto:catkins@conestogac.on.ca)

(519) 748-5220 x3657

**Marketing Liason Officer – to request a tour of the Program**

Jason Humphrey

[jwhumphrey@conestogac.on.ca](mailto:jwhumphrey@conestogac.on.ca)

(519) 748-5220 x2305

College	Program	Bridge Period	B.Eng.-MSE Application Level Entered (Winter YY+1)
Conestoga College	Mechanical Engineering Technology: Design and Analysis	4 months	7
Conestoga College	Mechanical Engineering Technology: Robotics and Automation	4 months	4
Conestoga College	Mechanical Engineering Technology: Automated Manufacturing	4 months	4
Algonquin College	Mechanical Engineering Technology	4 months	7
Humber College	Electromechanical Engineering Technology	4 months	4
Humber College	Mechanical Engineering Technology	4 months	4
George Brown College	Mechanical Engineering Technology Design	4 months	4
George Brown College	Electromechanical Engineering Technology: Building Automation	4 months	4
Mohawk College	Mechanical Engineering Technology	4 months	7
Niagara College	Mechanical Engineering Technology	4 months	7
Sheridan College	Mechanical Engineering Technology	4 months	7
Sheridan College	Electromechanical Engineering Technology	4 months	7

**Table 1: Existing Pathways into B.Eng.-MSE**