

Program Code: 0381

**Program Information**

Is your goal to find employment in the rapidly expanding technological industry? Are you mechanically inclined? Industry is experiencing a rapidly growing need for the expertise provided by the Mechanical Engineering Technician. This two-year course of study will develop highly skilled personnel capable of meeting the constantly changing demands brought on by advancing technologies.

The program design is broad based, meeting the basic outcomes particular to the Millwright, Machinist, and Steam Fitter trades, while meeting the additional requirements associated with an academic program presented at the Technician level. Two optional co-op placements in industry are an integral part of the program, giving you hands-on experience above and beyond what traditional classroom instruction and laboratories can provide.



# Mechanical Engineering Technician

## Admission Requirements

- Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels with Grade 12 English (C/U) Level.
- or successful completion of the Mature Student Assessment.
- or successful completion of the General Education Development Test (GED).
- or appropriate credits from the Academic and Career Entrance program (ACE).

## Required Courses

Grade 11 MCF3M Functions and Applications or MCR3U Functions or Grade 12 MAP4C Foundations for College Math or MCT4C Mathematics for College Technology or University Preparation.

Students who do not meet the entrance requirements are encouraged to apply for the Pre-Technology-Technology/Aviation program to facilitate success in their Technology path.

## Employment Opportunities

As a graduate of this program you may find employment with consulting engineering companies, pulp and paper industries, and government agencies. Anticipated entry-level employment includes Apprenticeship in Millwright, Machinist, Steam Fitter Trades, design drafting, mechanical sales, production operations, and hydraulics servicing.

Career Categories include prospective positions such as Mechanical Engineering, Technician, and Certified Trades such as Millwright, Welder, Machinist, Preventative Maintenance, Technician, Technical Sales, Mechanical Engineering, Maintenance Supervision, Mechanical Drafting / Design or Maintenance Planning.

## First Semester

CS 007 Persuasive Writing  
MC 155 Microsoft Office Applications  
MX 101 Trades Science I  
MX 111 Engineering Graphics  
MX 121 Mechanical Practices  
MX 131 Metrology/Machine Shop  
MX 141 Welding Practices I

## Second Semester

MX 201 Trade Science II  
MX 231 Machine Shop II  
MX 241 Welding Practices II  
MX 261 Power Transmission  
MX 271 Industrial Design I  
GE General Elective

## Third Semester

MA215 Pre-Technology Math  
MX301 Statics  
MX361 Mechanical Design  
MX371 Industrial Design II  
MX381 Fluid Power  
MX341 Strength of Materials  
GE General Elective

## Fourth Semester

MA315 Mathematics III  
MX460 Introduction to Electricity  
MX455 Materials & Processes  
MX475 Advanced Structural Design  
MX481 Fluid Mechanics  
MX491 Operations Management  
MX495 Mechanical Project Management  
GE General Elective

## For information, please contact:

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NOTE: Content subject to change. Visit the program website for the most current information.