



**CREDENTIAL**  
Ontario College  
Advanced Diploma

**PROGRAM CODE**  
Fall: 0399

**AREA OF INTEREST**  
Engineering Technology

**LOCATION**  
Thunder Bay

**DURATION**  
3 -year

## Overview

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 Technology program. This three-year program 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 Technologist level. An optional co-op placement in industry will be an integral part of the program, giving you hands-on experience above and beyond what traditional classroom instruction and laboratories can provide.



### Top Highlights

- Balance of practical and coursework – you might be getting your hands dirty with a wrench one day, then be designing with CAD the next!
- Prepares you for further apprenticeship learning in a variety of trades



### Employment Opportunities

Graduates of the program go on to a variety of positions including apprenticeship in millwright, machinist, steam fitter trades, design drafting, mechanical sales, production operations, hydraulics servicing and engineering type support roles.



### Experiential Learning

Optional Co-op



### Richard Kukkee Program Coordinator

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# Mechanical Engineering Technology

## 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.

## Alternative Pathways

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.

## Articulation Agreements

Upon successful completion of third year, graduates may apply to continue their education in the Mechanical Engineering degree program at Lakehead University.

Visit: [confederationcollege.ca/articulation-agreements](https://confederationcollege.ca/articulation-agreements) for more information.

## First Semester

CS 050 College Writing  
MA170 Technology Math I  
MC 165 Microsoft Office  
MX 111 Engineering Graphics  
MX 121 Mechanical Practices  
MX 131 Machine Shop I  
MX 141 Welding Practices I  
SC 110 Pre-Tech Physics I

## Second Semester

GE General Elective  
MA270 Technical Math II  
MX 231 Machine Shop II  
MX 241 Welding Practices II  
MX 261 Power Transmission I  
MX 271 Industrial Design I  
MX 460 Introduction to Electricity  
SC 210 Pre-Tech Physics II

## Third Semester

CS 219 Communications for Technology  
GE General Elective  
MA370 Technical Math III  
MX 301 Statics  
MX 341 Strength of Materials  
MX 361 Power Transmission II  
MX 371 Industrial Design II  
MX 381 Fluid Power

## Fourth Semester

GE General Elective  
MA 431 Mathematics IV  
MX 410 Introduction to Thermodynamics  
MX 431 Introduction to CNC  
MX 471 Power Transmission III  
MX 475 Advanced Structural Design  
MX 481 Fluid Mechanics

## Fifth Semester

MX 501 Advanced Calculus  
MX 531 Advanced Dynamics  
MX 561 Research Project I  
MX 571 Mechanical Lab I  
MX 581 Advanced Fluid Mechanics  
MX 591 Engineering Operations and Management

## Sixth Semester

MX 610 Applied Thermodynamics and Heat Transfer  
MX 611 Metrology & Quality Control  
MX 621 Machine Design  
MX 631 Advanced Dynamics of Machines  
MX 641 Advanced Strength of Materials  
MX 661 Research Project II  
MX 671 Mechanical Lab II



**Have questions? Want to apply?**  
Contact [recruitment@confederationcollege.ca](mailto:recruitment@confederationcollege.ca)

