



| CREDENTIAL | PROGRAM CODE | AREA OF INTEREST | LOCATION | DURATION |
|-------------------------|---------------------------|------------------------|-------------|----------|
| Ontario College Diploma | Fall: 0311 Winter: 0318 | Engineering Technology | Thunder Bay | 2 -year |

Overview

Your ideas can change the world! From building planes to developing new products that improve peoples' lives, there's never been a more exciting time to pursue a career in advanced manufacturing.

This two-year diploma program teaches you how to function effectively in Canada's aerospace industry. Work with advanced design programs such as CATIA. Learn about carbon fibre composites and how these materials make a world of difference in flight and other industries. Get hands-on experience in machining, CNC, rapid prototyping with 3D printing, laser cutting and other manufacturing fundamentals. You'll learn the aircraft design, modelling and manufacturing basics you need to develop a fulfilling career, bringing solutions to life and making a mark in the fields of aviation and advanced manufacturing and engineering.



Top Highlights

- Developed in consultation with Canada's leading aerospace companies including Bombardier, Boeing and Magellan Aerospace
- Learn and work in our state-of-the-art lab facilities located in the new Technology, Education and Collaboration Hub
- Learn from experienced faculty who have worked in the industry
- Transfer your innovation, design and other skills to industries including mass transit and car manufacturing



Experiential Learning

Applied Research



Employment Opportunities

Graduates of Confederation College's Aerospace Manufacturing Engineering Technician Diploma program go on to work at aerospace manufacturing and design companies including Bombardier, Boeing, Bell Helicopter, Airbus and others. Many of the skills and knowledge you'll learn here can be easily transferred to other industries including automotive, rail and industrial manufacturing.



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confederationcollege.ca/aerospace-mfg

This is **LEARNING**



Aerospace Manufacturing 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).

Other 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

If you do not possess the necessary admission requirements (or equivalency), we encourage you to consider our Pre-Technology-Technology/Aviation program which will provide the necessary preparation to apply to this program. Completion of the Pre-Technology-Technology/Aviation program does not guarantee admission to the Aerospace Manufacturing Engineering Technician program in a subsequent year.

Articulation Agreements

Confederation College has agreements in place that permit credits earned throughout this program to be transferred to programs at other colleges and universities.

Visit: confederationcollege.ca/articulation-agreements for more information.

First Semester

CS 050 College Writing
MA 133 Mathematics I
MC 165 Microsoft Office
TM 107 Physical Science for Aerospace & Mechanical Engineering
TM 112 Engineering Graphics CAD 1

Select one of the following:

TM 010 Metal Fabric Methods - Theory¹
TM 011 Metal Fabric Methods - Lab¹
TM 121 Metal Fabric Methods¹

Select one of the following:

TM 013 Machine Shop I - Theory²
TM 014 Machine Shop I - Lab²
TM 136 Machine Shop 1²

Second Semester

CS 219 Communications for Technology
MA 231 Mathematics II
SY 066 Sociology of Community: The Indigenous Context
TM 207 Statics
TM 212 Engineering Graphics/CAD 2
TM 269 Energy & Environment Issues Manufacturing

Select one of the following:

TM 021 Aircraft Assembly Methods - Theory¹
TM 022 Aircraft Assembly Methods - Lab¹
TM 221 Aircraft Assembly Methods 1¹

Select one of the following:

TM 023 Machine Shop II - Theory²
TM 024 Machine Shop II - Lab²
TM 236 Machine Shop 2²

Third Semester

GE General Elective
TM 313 Strength of Materials
TM 321 Aircraft Assembly Methods 2
TM 333 Chemistry of Metals, Polymers and Ceramics
TM 336 CNC Programming and Metal Cutting Theory
TM 347 Tool Design 1
TM 348 Manufacturing and Joining Processes

Fourth Semester

GE General Elective
MA 331 Mathematics III
TM 427 Intro to Operations Management
TM 433 Fluid Power
TM 436 CNC Programming
TM 452 Metallurgy and Materials Testing
TM 453 Composites I



Have questions? Want to apply?
Contact recruitment@confederationcollege.ca

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



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