

Train for a career in mechatronics, robotics manufacturing, automation, or automotive manufacturing.



NEW Fall 2022

Scholarships available up to **\$2500**
Placement opportunities and
vital hands-on training

HONOURS BACHELOR OF

Advanced Manufacturing Technology Management

Four Years - Honours Bachelor Degree

Your Experience: Complete a 14-week work placement in an advanced manufacturing environment.

Start your career in manufacturing technology management. This cross-disciplinary program will provide you with the technical and leadership skills you need to succeed in this lucrative industry. Train with a wide range of tools, technologies, standards and techniques that are revolutionizing manufacturing today. Learn robotics, automation, modelling, simulation and additive manufacturing in Canadore's advanced, industrial laboratories, workshops and classrooms. Train with industry professionals and prepare to launch your career in this emerging field.



Program Contact

Dr. Vimal Savsani
705.474.7600 ext. 5656
vimal.savsani@canadorecollege.ca



Your Future Career

- Production control
- Automation
- Robot programming
- Controls programming
- Mechanical design
- Management of robotics and automation technology

What You Learn

- Manufacturing and mechanical fundamentals
- Automation, robotics and process control
- Technology management
- Manufacturing/operations planning and control
- Machining and manufacturing techniques
- Computer-aided design and engineering

Curriculum**Semester 1**

AMTM105 Algebra
 AMTM110 Physics
 AMTM115 Introduction to Programming
 AMTM120 Introduction to Robotics
 AMTM125 Communications: Critical Thinking and Writing

Semester 2

AMTM205 Calculus
 AMTM210 Materials and Testing
 AMTM215 Advanced Programming and Data Structures
 AMTM220 Electrical and Electronic Circuits and Machines
 AMTM225 Organizational Behaviour

Semester 3

AMTM305 Statistics and Data Management
 AMTM310 Engineering Mechanics: Statistics and Dynamics
 AMTM315 Introduction to Technology Infrastructure
 AMTM320 Machining & Manufacturing Techniques
 AMTM325 Introduction to Research

Semester 4

AMTM405 Project Management
 AMTM410 Computer-Aided Design and Engineering
 AMTM415 Data Science and Database Management
 AMTM420 Economics of Advanced Manufacturing
 AMTM425 Human Resource Management

Semester 5

AMTM505 Quality Management and Reliability
 AMTM510 Computer-aided Product Design
 AMTM515 Sensors and Instrumentation
 AMTM520 Risk Management
 AMTM525 Entrepreneurship and the Business Plan

Admissions Requirements

Ontario Secondary School Diploma (OSSD) or equivalent a minimum of six university (U) and/or university/college (M) preparation level courses in Grade 12, with a minimum average of 65 percent in each prerequisite. The Grade 12 courses must include: English ENG4 (U) and any (U) level, Grade 12 Mathematics.

Certification/Accreditation

Honours Bachelor Degree

Semester 6

AMTM605 Thermodynamics and Heat Transfer
 AMTM610 Fluid Mechanics and Machinery
 AMTM615 Control Systems
 AMTM620 Technology Planning, Financing and Acquisition
 AMTM625 Liberal Studies Elective
 AMTM630 Work Integrated Learning Experience Preparation
 AMTM700 WIL Work Term

Semester 7

AMTM705 System-level Reliability
 AMTM710 Computer-aided Manufacturing
 AMTM715 Manufacturing Automation Project I
 AMTM720 Robotics and Process Optimization
 AMTM725 Survival in the Information Age: Risk and the Media (Algonquin)
 AMTM730 Work Term Reflection

Semester 8

AMTM805 Manufacturing/Operations Planning & Control
 AMTM810 Law and Ethics in Advanced Manufacturing
 AMTM815 Manufacturing Automation Project II
 AMTM820 Emergent Advanced Manufacturing Processes
 AMTM825 Global Perspectives

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