

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



canadorecollege.ca/advancedmanufacturing

Advanced Manufacturing Technology Management

Four Years - Honours Bachelor Degree

Type: Full-Time, Part-Time Intake: September Start Campus: Commerce Court Campus - North Bay/Online

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

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

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

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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