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Electromechanical Engineering Technology

Advanced Diploma

Program Code: 3071R

Campus: North

Length: 6 semesters

In Humber's Electromechanical Engineering Technology advanced diploma program, you'll learn how to support the engineering a

Students are encouraged to be a part of an annual provincial and National Skills competition in mechatronics, a prestigious comp

Our program builds upon the solid technical foundation of the Electromechanical Engineering Technician program, and graduates

Complementing your technical education are the effective communications, problem-solving and interpersonal skills that add value

Members from a wide variety of industries make up our advisory committee. They provide regular review and input of our curricu

Our program offers an optional co-op stream which has a strong and industry-connected placement centre. It trains students in pr

This program offers an optional co-operative education placement. Optional co-operative education placements enable you to app

For students who are accepted into the program, three optional co-operative education placements will take place. The first four-m

Courses

Semester 1

ATMN 100: Engineering Graphics

ATMN 110: Introduction to Control Circuits

GNED 101: An Introduction to Arts and Sciences

MECH 106: Workshop Practices 1

MECH 112: Engineering Materials

TMTH 114: Technical Mathematics for Electromechanical Engineering

WRIT 120: Technical Reading and Writing Skills

Semester 2

ATMN 151: Robotics 1

ATMN 152: Mechatronics 1

ATMN 153: Industrial Pneumatics

ATMN 156: First Year Mechatronics Project

MECH 155: Statics

WRIT 220: Technical Workplace Writing Skills

Semester 3

ATMN 200: Industrial Hydraulics

ATMN 210: Robotics 2

ATMN 215: Mechatronics 2

ATMN 220: Programming

CALC 103: Introduction to Calculus

Select 1 from the following courses

GNED: General Elective

Semester 4

ATMN 250: Mechatronics 3

ATMN 252: PLC Applications 1

ATMN 253: C++ Program for Automation

ATMN 256: Second Year Mechatronics Project

MECH 212: Applied Dynamics

Select 1 from the following courses

GNED: General Elective

Semester 5

ATMN 300: PLC Applications 2

ATMN 310: Industrial Automation Project

ATMN 321: Industrial Data Communications

ATMN 325: Robotics Cell Integration Technology

ATMN 330: Industrial Networking

ATMN 350: Mechanical Power, Devices and Mechanisms

CALC 203: Applied Calculus

Semester 6

ATMN 351: Industrial Automation Project 2

ATMN 352: Automation System Maintenance

ATMN 355: Motion Control