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Electrical Engineering Technician - Control Systems

Diploma

Program Code: 30111

Campus: North

Length: 4 semesters

Humber's Electrical Engineering Technician – Control Systems diploma program focuses on three major areas in electrical engineering: power industry

process instrumentation and control

programmable logic controllers (PLCs)

Our courses are designed in collaboration with an industry advisory panel, ensuring you learn current and relevant electrical engineering concepts.

Complex and challenging assignments prepare you for the realities of a control systems and electrical engineering career.

Courses

Semester 1

ELEC 107: Logic Fundamentals

ELEC 108: Introduction to Robotics

TECH 101: Electric Circuits

TECH 104: Programming Fundamentals

TMTM 104: Technical Mathematics 1

WRIT 120: Technical Reading and Writing Skills

Semester 2

TECH 150: Electronic Devices and Circuits

TECH 155: Electrical CADD

TECH 156: AC Circuits

TECH 157: Process Instruments

TMTM 204: Technical Mathematics 2

WRIT 220: Technical Workplace Writing Skills

Semester 3

CALC 103: Introduction to Calculus

ELEC 206: DC Equipment and Controls

ELEC 209: Programmable Logic Controllers: Introduction

ELEC 211: Power Systems 1

ELEC 254: Industrial Electronics

GNED 101: An Introduction to Arts and Sciences

Semester 4

ELEC 200: Canadian Electrical Code

ELEC 250: Electrical Circuit Analysis

ELEC 251: Automatic Controls: Introduction

ELEC 252: Fundamentals of Power Distribution and Circuit Analysis

ELEC 253: Advanced Programmable Logic Controllers

ELEC 255: Sensors and Actuators

Select 1 from the following courses

GNED: General Elective

Admission Requirements

Admission selection is based on the following 3 requirements:

. Academic

To be eligible for admission, you must possess the following:

Ontario Secondary School Diploma (OSSD) or equivalent including these required courses:

Grade 12 English (ENG4C or ENG4U or equivalent)

Grade 12 Mathematics (MAP4C, MCT4C, MDM4U, MCB4U, MGA4U, MCV4U or MHF4U or equivalent)

Two Grade 11 or Grade 12 C, M or U courses in addition to those listed above

or

Mature student status

or

College or university transfer status

Mature Applicants

Diplomas and Certificates

An applicant is considered a mature applicant if they have not completed secondary school or other postsecondary school, and u