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Construction Engineering Technology

Advanced Diploma

Program Code: CE311

Campus: North

Length: 6 semesters

Humber's Construction Engineering Technology program is one of three stackable programs within the Carpentry-Construction group.

This program is designed to explore the construction industry from an engineering and management perspective. You will become a professional in the construction industry.

Throughout the program, you will learn about compliance with workplace health and safety practices and procedures in accordance with the Occupational Health and Safety Act.

Key learnings will include:

- collecting, processing, analyzing and co-ordinating technical data to produce project-related documents

- co-ordinating and facilitating the collecting, processing, interpreting and application of survey/geomatics and layout information

- monitoring projects through principles of construction project management

- performing, co-ordinating and facilitating quality control testing

- preparing estimates

- selecting and using industry-specific technologies

This program offers an optional co-operative education placement. Optional co-operative education placements enable you to apply your learning in the workplace.

For students who are accepted into the program, two optional co-operative education placements will take place. The first four-month placement occurs during the first semester and the second occurs during the fifth semester.

Courses

Semester 1

CARP 100: General Carpentry Safety

CARP 101: Hand Tools

CARP 102: Formwork and Concrete Structures

CARP 103: Plans Specifications, Codes and Revit

CARP 104: Carpentry Practice 1

WRIT 108: English 1 for Skilled Trade Professionals

Semester 2

CARP 150: Residential Framing

CARP 151: Building Envelope

CARP 152: Power Tools and Equipment

CARP 153: Estimating, Calculation and Layout

CARP 154: Carpentry Practice 2

GNED 101: An Introduction to Arts and Sciences

TMTM 110: Essentials of Building Mathematics

Semester 3

BCTI 200: Equal and Unequal Sloped Roofs

BCTI 201: Interior Finishes

BCTI 202: Construction Layout Principles

BCTI 203: ICI Plans, Calculations, Specifications and Code

BCTI 204: Carpentry Practice 3

TMTM 210: Mathematics for Construction

Semester 4

BCTI 250: Stairs and Ramps Theory

BCTI 251: Stairs and Ramps Practical

BCTI 252: ICI Construction

BCTI 253: Exterior Finishes

BCTI 254: Carpentry Practice 4

WRIT 208: English 2 for Skilled Trade Professionals

Select 1 from the following courses

GNED: General Elective

Semester 5

CETI 300: Introduction to Building Science

CETI 301: Construction Planning and Scheduling / Revit

CETI 302: Principles of Construction Law

CETI 303: Steel Construction Technology

CETI 304: Building Services - Electrical/Mechanical / Assessment

CETI 305: Quantity and Costing

CETI 306: Construction Project Management - Contractual Viewpoint