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# Engineering - Information Systems Engineering, Bachelor of

Honours Degree

Program Code: IS411

Campus: North

Length: 8 semesters

Humber's Bachelor of Engineering program begins with a common platform of first year courses which provides foundational engi

The Bachelor of Engineering - Information Systems Engineering discipline prepares you for an interdisciplinary field of study that e

The program also provides project-based learning, experiential learning with hands-on and practical training, applied research opp

A co-operative education placement (three consecutive work terms, 420 hours each) ensures that work-integrated learning experie

## Courses

### Semester 1

ALGB 1100: Linear Algebra

CALC 1100: Calculus 1

ENGI 1000: Physics 1

ENGI 1010: Introduction to Engineering

ENGI 1020: Engineering in Society

ENGI 1021: Technical Communication and Critical Thinking for Engineers

### Semester 2

CALC 1500: Calculus 2

ENGI 1500: Physics 2

ENGI 1510: Engineering Design

ENGI 1511: Engineering Materials

ENGI 1512: Teamwork and Leadership for Engineers

ENGI 1515: Introduction to Programming

### Semester 3

DISC 2100: Discrete Mathematics

ENGI 2000: Engineering Project Management

IENG 2000: Operating Systems

IENG 2010: Electronic Circuits

IENG 2020: Object-Oriented Programming

IENG 2030: Digital Systems

### Semester 4

IENG 2500: Embedded Systems

IENG 2510: Data Structures and Algorithms

IENG 2520: Databases

IENG 2530: Communication Engineering

STAT 2100: Statistics & Probability

Select 1 from the following courses

DEGE: Degree Breadth Elective

### Semester 5

ENGI 3000: Engineering Economics and Entrepreneurship

IENG 3000: Introduction to Artificial Intelligence

IENG 3010: Computer Architecture

IENG 3020: Virtual Platform Technologies

WORK 3590: Work Preparation

Select 2 courses from one of the following groupings

### Semester 6

ENGI 3500: Law, Ethics and Professional Practice

IENG 3500: Software Engineering

IENG 3510: Wireless Systems

IENG 3520: Mobile Applications and Systems

Select 2 courses from one of the following groupings

Work Experience - SEM 6A

ENGI 3591: Co-operative Education 1 - Faculty of Applied Science & Technology

Work Experience - SEM 6B

ENGI 3592: Co-operative Education 2 - Faculty of Applied Science & Technology

Work Experience - SEM 6C