

Bachelor of Engineering (Honours) Specialisation in Civil Engineering

ENTRY REQUIREMENTS

Assumed Knowledge	HSC Mathematics Advanced (Band 4) or equivalent. If you don't have the assumed knowledge, you're advised to undertake a bridging course in mathematics.
Recommended Studies	HSC Mathematics Extension 1 or HSC Mathematics Extension 2 plus HSC Physics, or equivalent. HSC Software Design and Development or equivalent.

COURSE STRUCTURE

Essential units - 100 credit points

Complete each unit below.

ENGG1100	Introduction to Engineering
ENGG1110	Engineering in Balance
ENGG1130	Engineering in Motion
ENGG1140	Fundamentals of Digital Computing
ENGG1150	Foundations of Signals and Circuits
ENGG1160	Programming and Proof
ENGG2100	Engineering Project
ENGG3100	Advanced Engineering Project
ENGG4100	Engineering Professional Practice
ENGG4101	Engineering Thesis Project A
ENGG4099	PACE: Industry Experience - <u>No credit points</u>

Elective Unit - 10 credit points

Complete 10 credit points from the following options.

- Students enrolling in Software Engineering and Mechatronic Engineering Specialisations must enrol in COMP1020.
- Students enrolling in Civil Engineering and Mechanical Engineering Specialisations must enrol in ENGG1120.
- Students enrolling in Electrical and Electronic Engineering Specialisation can select either COMP1020 or ENGG1120.

COMP1020 Software Development Practices

ENGG1120 Engineering with Heat and Fluids

Complementary Option Sets - 60 credit points

Complete 60 credit points from one of the following:

- Environmental Management
- Management and Leadership
- Strategy, Innovation and Entrepreneurship
- Artificial Intelligence
- Cyber Security
- Mathematics
- Engineering Breadth
- Software Development
- Intelligent Systems
- Renewables Engineering

Capstone unit - 10 credit points

ENGG4102 Engineering Thesis Project B - 10 credit points

Elective Units - 20 credit points

Complete 20 credit points from any 1000, 2000, 3000 or 4000 level units for which you meet the requisites.

Specialisation in Civil Engineering - 120 credit points.

Complete each unit below.

CIVL2120	Soil and Rock Mechanics
CIVL2301	Structural Analysis
CIVL2140	Strength and Sustainability of Construction Materials
CIVL3101	Hydraulics and Hydrology
CIVL3120	Applied Geotechnical Engineering
CIVL3130	Structural Engineering Design
CIVL3140	Construction Engineering
CIVL4110	Water Systems Engineering
CIVL4120	Transport Systems and Pavement Engineering
CIVL4140	Advanced Concrete Design and Construction
CIVL4130	Design of Steel and Timber Structures
MECH2120	Fluid Mechanics

Specialisation = 120 Credit Points

Degree = 320 Credit Points

CORE ZONE

CORE ZONE

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