

Bachelor of Engineering (Honours)

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 (contains 20)

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 Infrastructure
- Engineering Breadth
- Software Development
- Intelligent Systems
- Robotics and Automation
- Renewables Engineering

Capstone unit - 10 credit points

ENGG4102	Engineering Thesis Project B - 10 credit points
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Elective Units - 20 credit points

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

CORE ZONE

SPECIALISATION 120 CREDIT POINTS

Complete one Specialisation from the following options.

Civil Engineering	120 cp
Electrical and Electronic Engineering	120 cp
Mechanical Engineering	120 cp
Mechatronic Engineering	120 cp
Software Engineering	120 cp
Flexible First-Year	No cp

Specialisation = 120 Credit Points

CORE ZONE

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