

Bachelor of Engineering (Honours)

Specialisation in Civil Engineering

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
- · HSC Physics, or equivalent.
- HSC Software Design and Development or equivalent.

COURSE STRUCTURE

ESSENTIAL	UNITS: Complete each unit below	60 ср
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ENGG1000	Introduction to Engineering	10 CP
ENGG1050	Engineering Design	10 CP
ENGG2000	Engineering Practice	10 CP
ENGG2050	Engineering Systems and Design Thinking	10 CP
ENGG3000	Engineering Project Practice	10 CP
ENGG3050	Engineering Leadership and Entrepreneurship	10 CP
ENGG4099	PACE: Industry Experience	No CP
CAPSTONE (JNIT: Complete the capstone unit below	10 ср
ENGG4001	Professional Practice	10 CP
	Essential Units Total = 70 Credit	Points
Flexible zone		40 cp

40cp of elective units. You can use your flexible zone to enrol in any Undergraduate unit for which you meet the requisites. You may also use your flexible zone to complete a minor.

Options include: Ancient History, Anthropology, Astronomy and Astrophysics, Biology, Biotechnology, Business Administration, Business Analytics, Business Information Systems, Chemistry, Chinese Studies, Creative Writing, Criminology, Critical Indigenous Studies, Cyber Security Governance, Earth and Environmental Sciences, Economics, English, French and Francophone Studies, Gender Studies, Geography, German Studies, Health, Wellbeing and Society, Human Biology, Human Resource Management, Interactive Design, International Business, International Relations, Japanese Studies, Journalism and Non-Fiction Writing, Management and Leadership, Marine Science, Mathematics, Media, Culture and Communications, Modern History, Music Studies, Performing Arts and Entertainment Industries, Physics, Philosophy, Politics, Psychological Science, Public Relations and Social Media, Radio, Podcasting and Audio Media, Screen Practice and Production, Sociology, Spanish and Latin American Studies, Statistical Data Science Strategy, Innovation and Entrepreneurship, and Work, Life and Technology.

Flexible Zone = 40 Credit Points

Degree = 320 Credit Points

Specialisation in Civil Engineering		
Complete all units below. Each unit is 10 cp		
CIVL1001	Introduction to Civil Engineering	
MATH1010	Calculus and Linear Algebra I	
MATH1020	Calculus and Linear Algebra II	
COMP1000	Introduction to Computer Programming	
PHYS1510	Engineering Physics	
CIVL2101	Water and Wastewater Engineering	
CIVL2201	Soil Mechanics	
CIVL2205	Geotechnical Engineering	
CIVL2301	Structural Analysis	
MATH2055	Engineering Mathematics II	
MECH2002	Fluid Mechanics	
CIVL3101	Hydraulics and Hydrology	
CIVL3201	Transport Engineering	
CIVL3301	Design of Concrete Structures	
CIVL3305	Design of Steel and Timber Structures	
CIVL3401	Construction Management	
CIVL4090	Civil Engineering Research Thesis A	
CIVL4091	Civil Engineering Research Thesis B	
CIVL4201	Geotechnical and Transportation Project	
CIVL4301	Integrated Structural Design and Construction	
CIVL4401	Health and Safety in Construction	
	Specialisation = 210 Credit Points	

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Degree = 320 Credit Points