

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

Bachelor of Engineering = 280 credit points	
Core Zone	70 credit points
Specialisation in Civil Engineering	210 credit points
Qualification = 280 credit points	

CORE ZONE

Essential units - 60 credit points		
ENGG1000 Introduction to Engineering		10
ENGG1050 Engineering Design		10
ENGG2000 Engineering Practice		10
ENGG2050 Engineering Systems and Design Thinking		10
ENGG3000 Engineering Project Practice		10
ENGG3050 Engineering Leadership and Entrepreneurship		10
ENGG4099 PACE: Industry Experience		10
Capstone unit - 10 credit points		
Complete the capstone unit below.		
ENGG4001 Professional Practice		10

FLEXIBLE ZONE

Flexible Zone = 80 credit points	
This zone allows you to either gain more depth in your chosen area of study or learn about other areas that interest you. 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.	

SPECIALISATION

Civil Specialisation = 210 credit points	
Complete the following units.	
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 & 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