

Bachelor of Engineering (Honours)

Specialisation in Software Engineering

ENTRY REQUIREMENTS

Academic Requirements	Guaranteed entry - 80
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 Software 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 = 40 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

Software Engineering = 210 credit points	
Complete the following units.	
COMP1000	Introduction to Computer Programming
COMP1010	Fundamentals of Computer Science
COMP1050	Introduction to the Study of Software Engineering
COMP1300	Introduction to Cyber Security
COMP1350	Introduction to Database Design and Management
MATH1007	Discrete Mathematics I
COMP2000	Object-Oriented Programming Practices
COMP2010	Algorithms and Data Structures
COMP2050	Software Engineering
COMP2100	Systems Programming
COMP2250	Data Communications
MATH2907	Discrete Mathematics II
COMP3000	Programming Languages
COMP3010	Algorithm Theory and Design
COMP3100	Distributed Systems
COMP3310	Secure Applications Development
COMP4000	Formal Methods
COMP4050	Software Engineering Practices
COMP4060	Advanced Software Engineering
COMP4092	Software Engineering Research Thesis A
COMP4093	Software Engineering Research Thesis B