

# **Bachelor of Engineering (Honours)**

## Specialisation in Software 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
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 Credi	Points
Flexible zone		40 cp
Agen of elective units. You can use your flexible zone to		

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

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Complete a	ll units below. Each unit is 10 cp	
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	
	Specialisation = 210 Credit Points	
	Degree = 320 Credit Points	

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