

Bachelor of Engineering (Honours)

Specialisation in Mechanical 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 cp
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 UNIT: Complete the capstone unit below		10 cp
ENGG4001	Professional Practice	10 CP

Essential Units Total = 70 Credit Points

Flexible zone	40 cp
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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 all units below. Each unit is 10 cp

MATH1010	Calculus and Linear Algebra I
MATH1020	Calculus and Linear Algebra II
COMP1000	Introduction to Computer Programming
MECH1001	Introduction to Mechanical Engineering
PHYS1510	Engineering Physics
MATH2055	Engineering Mathematics II
MECH2001	Engineering Dynamics
MECH2002	Fluid Mechanics
MECH2003	Mechanical Design 1
MECH2004	Mechanics of Solids
MECH2005	Engineering Materials
MECH3001	Thermodynamics
MECH3002	Heat and Mass Transfer
MECH3003	Mechanical Design 2
MECH3004	Applied Numerical Engineering
MECH3005	Manufacturing Engineering
MECH4001	Product Design Engineering
MECH4002	Energy Sustainable Design
MECH4092	Mechanical Engineering Research Thesis A
MECH4093	Mechanical Engineering Research Thesis B

Choose one unit from the following options 10 cp

ENGG4093	Engineering Research Thesis Extension B
MECH4005	Production Processes

Specialisation = 210 Credit Points

Degree = 320 Credit Points

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