Bachelor of Engineering (Honours)
Specialisation in Mechanical Engineering

ENTRY REQUIREMENTS

<table>
<thead>
<tr>
<th>Academic Requirements</th>
<th>Guaranteed entry - 80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assumed Knowledge</td>
<td>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.</td>
</tr>
<tr>
<td>Recommended Studies</td>
<td>HSC Mathematics Extension 1 or HSC Mathematics Extension 2 plus HSC Physics, or equivalent. HSC Software Design and Development or equivalent.</td>
</tr>
</tbody>
</table>

COURSE STRUCTURE

Bachelor of Engineering = 280 credit points

Core Zone 70 credit points
Specialisation in Mechanical 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

Mechanical Engineering = 210 credit points

Complete the following units.
- MATH1010 Calculus and Linear Algebra I
- MATH1020 Calculus and Linear Algebra II
- COMP1000 Introduction to Computer Programming
- PHYS1510 Engineering Physics
- PHYS1520 Physics for Electrical and Electronic Engineering
- 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