Bachelor of Engineering (Honours) (Mechanical)

Mechanical engineering turns energy into power and motion. Mechanical engineers design, create, improve and maintain systems and machinery that are used for private and commercial purposes. They keep pace with technology and act as an interface between technology and society, playing an essential role contributing to the sustainable and future development of industry.

Explore your options
Your engineering degree features common units in the first year that combine broad foundation principles with a wide range of major choices, giving you flexibility and options before you choose your career specialisation.

Why choose this course?
Mechanical engineering at QUT offers you a balanced mix of theory and practice to prepare you for the work environment. You receive a thorough grounding in the engineering sciences and hands-on, practical experience in real-world problem solving and application of theory in a program that is strongly oriented towards industry needs. In this way, we’ll make you fully prepared to work in every aspect of mechanical engineering from technical analysis to the operation and maintenance of equipment and systems.

Our engineering courses, whether a single or double degree, now include honours-level content integrated throughout the course. A bachelor honours degree is a higher-level qualification than a bachelor degree, and along with the advanced knowledge and skills, it will benefit you in your professional career or future research and study. The duration of the degree remains unchanged: a single engineering honours degree is a four-year program, and a double degree is five years.

Subject prerequisites
- Mathematical Methods (Units 3 & 4, C)

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies.

Olivia Hutchinson
Real student

'What I love about my course is the international opportunities - I got to go and study abroad in Denmark, and I’ll be taking a two-week course in Norway at the start of next year. What I love even more is that this course provides me with the skill set to be a successful engineer.'
Minimum English requirements
Students must meet the English proficiency requirements.

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<th>IELTS (International English Language Testing System)</th>
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<tr>
<td>Overall</td>
<td>6.5</td>
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<tr>
<td>Listening</td>
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<td>Reading</td>
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<td>Writing</td>
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Course structure
To graduate with a Bachelor of Engineering (Honours), students are required to complete 384 credit points of course units, as outlined below:

- First year (96 credit points): four core units 48cp + one Maths option unit 12cp + foundation strand options 36cp (include two discipline foundation units 24cp + one option unit 12cp)
- Major: One (1) block of eight (8) major units 96cp plus eight (8) Honours level units 96cp (192 credit points)
- Complementary Studies: 1 x 2nd major or 2 x minor (96 credit points)

Honours units to consist of:
- Research methods 12cp
- Project 24cp
- 5 x Advanced major units 60cp

Professional recognition
This course has professional accreditation from Engineers Australia (EA). EA is a signatory to the Washington Accord, which permits graduates to work in various countries across the world. This course is recognised internationally in the engineering profession, giving our graduates more career opportunities overseas.

Work Integrated Learning
Work Integrated Learning (WIL) is embedded in the curriculum and it is a core component for all engineering students. WIL allows you to graduate with a portfolio of professional skills that provides evidence of your professional competencies.

You are required to undertake 60 days of approved work experience in the engineering environment as part of your work integrated learning.