 Bachelor of Engineering (Honours) (Medical)

Medical engineers work with doctors and medical scientists to design, manufacture and maintain medical equipment to improve health care and medical services. The discipline applies engineering and scientific methods to find solutions to problems in medicine and the life sciences.

Medical engineering integrates engineering principles with human physiology to design, manufacture, install, monitor and maintain medical and surgical equipment. Medical engineers are responsible for the safe and effective operation of equipment such as monitoring, diagnostic and therapeutic medical equipment ranging from CT scanners to kidney dialysis machines.

**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?**

During this degree you'll undertake professional experience and other hands-on activities such as hospital and industry site visits. There is also the possibility of involvement in industry-based projects, overseas study, work opportunities and ground-breaking research through the QUT Institute of Health and Biomedical Innovation, and the QUT Medical Engineering Research Facility.

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**

- Maths B

You must have achieved this study at a level comparable to Australian Year 12 or in recognised post-secondary studies. Recommended study: Chemistry, Maths C and

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**Renee Nightingale**

**A rewarding career**

'When a family member received a cochlear implant I saw how medical engineering could provide a long-term solution to his hearing loss. I would love a career working to improve the health of individuals through the development and implementation of viable healthcare technology.'

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Bachelor of Engineering (Honours) (Medical)

Physics.

**Minimum English requirements**
Students must meet the English proficiency requirements.

<table>
<thead>
<tr>
<th>IELTS (International English Language Testing System)</th>
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<tbody>
<tr>
<td>Overall</td>
<td>6.5</td>
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<tr>
<td>Listening</td>
<td>6.0</td>
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<tr>
<td>Reading</td>
<td>6.0</td>
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<td>Writing</td>
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<td>Speaking</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**
All graduates are eligible for an Engineers Australia (EA) membership. 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 QUT graduates more career opportunities overseas.

**Scholarships**
You can apply for scholarships to help you with study and living costs.

- **QUT Excellence Scholarship** (Academic)
- **Women in Engineering Scholarship**
- **Equity scholarships scheme**
- **QUT Sport Scholarship** (Elite Athlete)
- **Undergraduate Indigenous Fee Waiver Commencing Student Scholarship**

**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.