Undergraduate international course

Bachelor of Engineering (Honours) (Electrical and Aerospace)

Year | 2021
QUT code | EN01
QTAC code | 412502
CRICOS | 084921G
Duration | 4 years full time
OP | 12
Rank | 75
Total credit points | 384
International fee (indicative, subject to annual review) | 2021: $40,600 per year full-time (96 credit points)
Course contact | Freecall: 1800 181 848 (within Australia)
| Phone: +61 3 9627 4853 (outside Australia)
| Mon - Fri, 8.30am - 5pm
Campus | Gardens Point
Start months | July, February

Electrical and aerospace engineering involves design, development, manufacture and maintenance work on the electronic systems of military and civilian aeroplanes, helicopters, spacecraft, satellites and uninhabited aerial vehicles (UAVs). If you are interested in how things work, space and flight, technology, electronics and aircraft systems, an electrical and aerospace career could be for you.

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?
You will learn about aerodynamics, aircraft control systems, avionics navigation and communications, and specialise in the design of electronic systems for aircraft and satellite systems using systems engineering methodology. We are a major player in national avionics research and we have strong partnerships with government and industry. You'll be involved in research projects such as fixed-wing UAV and rotorcraft, aerospace vision systems, aircraft control systems and autopilot design.

Field trips provide you with a first-hand view of aerospace avionics, plus you'll interact and engage with engineers and researchers at QUT's Australian Research Centre for Aerospace Automation.

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.

Expand your expertise
Your study plan for this specialisation includes the choice of a second study area.

Benjamin Letheren
Connections to industry

‘QUT’s focus on real work connections prepared me to enter the aerospace industry. I worked on unmanned aerial vehicles (UAVs) as part of a Vacation Research Experience Scheme project and while undertaking work experience at the Australian Research Centre for Aerospace Automation. As a graduate I have joined Airbus one of the largest, international aerospace companies.’

Accurate as at 20 July 2020. For the latest information see:
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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.

Minimum English requirements

Students must meet the English proficiency requirements.

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<th>IELTS (International English Language Testing System)</th>
<th>English Language</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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<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 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.