Bachelor of Engineering (Honours) (Mechatronics)

Year 2021
QUT code EN01
QTAC code 412502
CRICOS 084921G
Duration 4 years full time
OP 12
Rank 75
Total credit points 384
Deferral You can defer your offer and postpone the start of your course for one year.

Domestic fee (indicative, subject to annual review) 2021: CSP $6,700 per year full-time (96 credit points) (Subject to the passing of legislation) 2020 CSP $9,600 per year full-time (96 credit points)

Offer Guarantee Yes
Course contact askqut@qut.edu.au 3138 2000
Campus Gardens Point
Start months July, February

Mechatronics engineering is the design and maintenance of machinery with electronic and computer control systems, such as aircraft and power generators, to work in the high-tech fields of automated systems and robotics. Engineers who can manage the disciplines of mechanical, electrical and computer engineering simultaneously are becoming essential across all industrial sectors: manufacturing and process industries, primary production and mining, and the service and health industries. If you are interested in technical and engineering work, mechanical equipment such as robotics, physics and mathematics, a career in mechatronics 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?
Mechatronics engineering is the hybrid discipline of mechanical, electrical and electronic engineering, and computing. This degree provides you with skills in all these disciplines to enter the growing industry. You'll benefit from our close links with industry and may be involved in projects such as QUT Motorsport and the aerospace avionics Uninhabited Aerial Vehicle Outback Challenge.

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.

Assumed knowledge
Before you start this course we assume you have sound knowledge in these areas
- English, or Literature, or English and Literature Extension, or English as an Additional Language (Units 3 & 4, C)
- Mathematical Methods (Units 3 & 4, C)

Before you start this course, we assume you have sound knowledge of the subject(s)

Amy Gunnell
Follow your interests

'I chose to study mechatronics as it focused on the design, control and interactions of both mechanical and electrical systems. By adding robotics as a second study area I gained further insight and depth. I'm now an automation engineer on working on control systems from individual robots to whole manufacturing lines.'
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listed below. If you don't have the subject knowledge, you can still apply for the course but we encourage you to undertake bridging studies to gain the knowledge:

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: one x second major or two 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.

Fees
HECS-HELP
You may be eligible for HECS-HELP, a loan scheme to help you pay your course fees, if you are an Australian citizen or hold an Australian permanent humanitarian visa. For other conditions read the HECS-HELP information.

Student Services and Amenities Fee
You'll need to pay the student services and amenities fee as part of your course costs. You may be eligible for SA-HELP, a loan scheme to help you pay your student services and amenities fee, if you are an Australian citizen or hold an Australian permanent humanitarian visa. For other conditions read the SA-HELP information.

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.

Special course requirements
A candidate for the degree of Bachelor of Engineering (Honours) must obtain at least 60 days of industrial experience/practice in an engineering environment as approved by the course coordinator.