Bachelor of Mechanical Engineering (Honours) Undergraduate

Course overview

Deakin’s Bachelor of Mechanical Engineering (Honours) allows you to turn your passion into a rewarding career. Today, mechanical engineers lend their expertise to the development of almost every design imaginable. Not only will this internationally recognised program prepare you to be an industry-ready professional engineer, it’ll give you the chance to get hands-on with advanced technologies in our multi-million dollar engineering precinct.

No matter what types of technology spark your interest, Deakin provides the ultimate training ground to design, construct and test your ideas. You’ll have access to the same tools as industry professionals and, through 60 days of work experience, you’ll work alongside professional engineers on projects that inspire your creativity. On top of that, the course’s project-oriented design-based learning activities develop your ability to work in teams, communicate and lead.

Course structure

Bachelor of Mechanical Engineering (Honours)

Location: Melbourne Burwood Campus1, Geelong Waurn Ponds Campus2 and Cloud Campus3

Duration: 4 years full-time study (or part-time equivalent)

Intake: March (Trimester 1), July (Trimester 2)

Deakin code: S462

ATAR score: Melbourne Burwood Campus: 71.80, Geelong Waurn Ponds Campus: 67.75

VTAC code: Melbourne Burwood Campus (1400514801), Geelong Waurn Ponds Campus (1400314801), Cloud Campus (1400614801)

The Bachelor of Mechanical Engineering (Honours) consists of 32 credit points of study, including 26 core units (totalling 31 credit points) and 1 elective unit (worth 1 credit point).

Hands-on learning

You will also have opportunities to test your mechanical design and engineering skills in challenges such as the World Solar Challenge and Warman Design and Build Competition.

Professional recognition

Deakin’s Bachelor of Mechanical Engineering (Honours) is accredited by Engineers Australia, which gives the degree international recognition, allowing graduates to practise as professional engineers in many countries around the world.

1 The first year is available at all three campuses. Students undertaking first year at the Melbourne Burwood Campus are required to complete their course at either the Geelong Waurn Ponds Campus or via the Cloud Campus.
2 Cloud Campus students are required to participate in campus-based intensive activities each trimester at the Geelong Waurn Ponds Campus.
3 Trimester 2 intake only available at Waurn Ponds (Geelong) and Cloud Campus.
4 Lowest selection rank of an applicant to which an offer was made in 2020.
5 The ATAR is ‘unpublished’. ‘Unpublished’ means the course is available at this campus, but the lowest selection rank of an applicant to which an offer was made in isn’t available.
At Deakin we have access to Digital and Additive Manufacturing processes. These are of a great benefit since they allow us to create accurate prototype parts and highly optimized working parts. The learning environment at Deakin is very collaborative. Academic staff are always available for assistance, and students work alongside one another.

Jordan Ritchie
Bachelor of Mechanical Engineering (Honours) student

World-class facilities
Engineering students at Deakin will have access to our state-of-the-art engineering precinct at the Geelong Waurn Ponds Campus. Having access to some of the best facilities in the Australian sector allows students to realise and validate their designs through combinations of computer simulation, prototyping, testing and manufacturing.

Find out more at deakin.edu.au/eng-facilities.

Career outcomes
Graduates have a high degree of employability in the automotive, manufacturing and mining sectors, as well as a range of other industries that utilise student’s strong engineering design and product development skills. Therefore, graduates can also expect employment opportunities in the aircraft, ship-building, automotive, aerospace, railroad, defence, biomedical and textiles industries.

Industry informed teaching
Project-Oriented Design-Based Learning (PODBL) in collaboration with industry is a key feature of our engineering courses. This new, innovative teaching methodology means that practical learning experiences are woven throughout the duration of our engineering courses. Bringing together theory, site studies and laboratory investigations, including Structural, Thermo-Fluid, and Machine Design; and Industrial Control.

Professional industry experience
Professional Engineering Practice is a compulsory unit in all Deakin engineering degrees. This means you will have a minimum of 60 days work experience in one or more organisations, giving you insight into your future career options.

Interested in applying?

Entry requirements

Entry for applicants with recent secondary education* will be based on their performance in Senior Secondary Certificate of Education, with pre-requisite units 3 and 4; a study score of at least 25 in English EAL (English as an additional language) or 20 in English other than EAL and a study score of at least 20 in mathematical methods (any) or specialist mathematics (or equivalent).

Entry for applicants with previous Tertiary, VET, life or work experience: Prerequisites of English and mathematics as for year 12 school leavers (or equivalent).

Entry will be based on their performance in:

- Senior Secondary Certificate of Education with ATAR of at least 50 or equivalent OR
- Certificate IV in a related discipline OR
- Diploma in any discipline or 50% completion of Diploma in a related discipline OR
- Successful completion of relevant study – equivalent to at least two Deakin University units – at an accredited higher education institution OR
- Evidence of academic capability judged to be equivalent, including Foundation program approved by Faculty Board, or relevant work or life experience.

How to apply

Depending on your course, our flexible trimester system means you may be able to start in Trimester 1 (March), 2 (July) or 3 (November).

If you’re currently enrolled in Year 12 or a recent secondary applicant (ie. have completed Year 12 in the past two years) your application for Trimester 1 must be made through VTAC, www.vtac.edu.au. Note that when you apply via VTAC, you can’t also apply directly to Deakin.

Conversely, if you have previous higher education, VET or work experience, you can apply directly to Deakin.

Applications for Trimester 2 or 3 should be made directly to Deakin via the applicant portal, deakin.edu.au/apply.

* Includes those currently enrolled in Year 12 and those who have completed Year 12 in the past two years.