Bachelor of Software Engineering (Honours)

DEAKIN UNIVERSITY

Undergraduate

Course overview

Create the smart software and systems of the future by studying Deakin's Bachelor of Software Engineering (Honours). The course arms you with the skills needed to build disruptive technologies that create change, making you a sought-after expert ready to solve tomorrow's business problems through creative computing solutions.

Explore a broad range of exciting study areas, including robotics, algorithms, programming and software architecture, and apply your skills in world-class facilities.

You'll have access to Deakin's $1.2 million dollar Robotics and Internet of Things (RIoT) Studio where you'll acquire specialist skills in robotics, cyber-physical systems and the Internet of Things. Gain practical experience and learn how to work successfully in a team with project-based learning activities and contribute to real-world projects alongside professional engineers during 450 hours of industry placement.

Software engineering meets robotics

Robotics and cyber-physical systems are a rapidly growing commercial technology sector, with products such as self-driving cars, fitness trackers and drones being launched in recent years. From Mars rovers, to smart homes and cities, robotic surgery and precision agriculture, software engineers combine software systems and embedded hardware to create solutions that fill a vital role in the development of smart and innovative technologies.

Work experience

You will undertake a core professional industry experience unit as part of your course, which involves an industry-based placement for a minimum of 60 days with an approved organisation.

This will provide you with the opportunity to apply what you are learning in your course, explore career options, experience workplace culture and practices, and develop a professional network before you graduate.

Please visit **deakin.edu.au/sebe/wil** to find out more information.

deakin.edu.au/course/S464

Course structure

Bachelor of Software Engineering (Honours)

Location: Melbourne Burwood Campus [B] and Cloud Campus [C]
Duration: 4 years full-time study (or part-time equivalent)
Intake: March (Trimester 1), July (Trimester 2)
Deakin code: S464
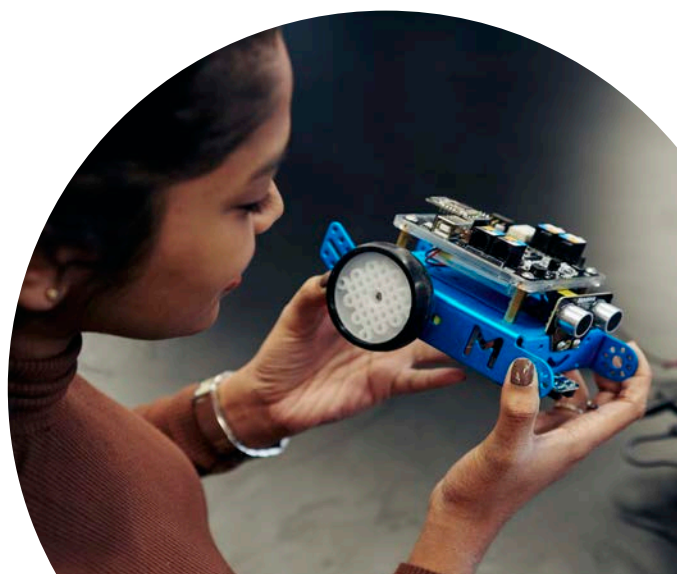**ATAR score**[1]: [B] 64.4 [C] N/A[2]
VTAC code: Melbourne Burwood Campus (1400510341), Cloud Campus (1400610341)

The Bachelor of Software Engineering (Honours) consists of 32 credit points of study, including 23 core units (totalling 28 credit points) which includes a compulsory industry-based placement unit and 4 elective units (1 credit point each). You can choose elective units from many course areas across the University according to your own interests and career aspirations, helping to diversify your degree.

You will also complete four zero credit point units of study relating to work placement, safety, academic integrity and project oriented learning.

Please visit **deakin.edu.au/handbook** for more information about this course, including further details of the course structure and units involved.

1 Lowest selection rank of an applicant to which an offer was made in 2020.

2 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.

Career opportunities

Deakin's Bachelor of Software Engineering (Honours) has been designed in response to industry demand for innovative software engineers capable of designing and developing complex software systems for the modern world; where software not only needs to interact with other software systems and users, but also with the environment itself.

As a graduate of this course you will be well-equipped to find employment in diverse areas of software systems engineering that are increasing in both complexity and interaction with the physical world. You will be able to develop and implement state-of-the-art smart devices, systems and application frameworks for industries such as smart infrastructure, health, agriculture, manufacturing and transport.

You may pursue a career as a software engineer, software developer, embedded systems developer, robotics application developer, systems architect, software and business analyst, software and system tester, and other emerging roles in this fast-growing sector. Software engineers also work in specialist research roles.

Course accreditation

The Bachelor of Software Engineering (Honours) is professionally accredited by the Australian Computer Society (ACS), providing international recognition and graduate eligibility for membership of the ACS. Deakin's Bachelor of Software Engineering (Honours) is also accredited by Engineers Australia.

Hear what our students have to say
deakin.yt/software-eng

Interested in applying?

Entry requirements

Entry for applicants with recent secondary education* will be based on their performance in a 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 one of Maths: Mathematical Methods (any) or Maths: Specialist Mathematics.

Entry for applicants with previous Tertiary, VET, life or work experience will be based on their performance in: Prerequisites of English and mathematics as for year 12 school leavers (or equivalent).

Entry will be based on their performance in:

- 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.

1800 MYFUTURE (1800 693 888)
myfuture@deakin.edu.au

deakin.edu.au/course/S464

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