Computer scientists create and shape the technologies of the future, through the design and development of advanced software and computing systems.

Computer scientists are problem solvers and innovators who conceptualise and solve practical computing problems, such as the development of the Internet, social media, autonomous cars, social robots, smartphones, and artificial intelligence.

Course overview

Through the study of problem solving, algorithmic thinking, computational patterns, computing technologies and software development techniques, the Bachelor of Computer Science will equip you with the skills and competencies needed to design and develop data-driven computing solutions to existing and emerging problems in areas such as data analytics, machine learning, robotics, intelligent systems, autonomous systems, telecommunications, and entertainment.

You will also develop professionally relevant skills in critical thinking, team work, communication, and digital literacy. Through study tours and exchange programs, you can apply your skills worldwide to develop a global perspective and awareness of the international opportunities in this profession.

Specialised facilities

Experiential learning and practical exposure to current and emerging technology is a key feature of Deakin’s computer science course.

Deakin regularly invests in its facilities, the specialised labs - which include dedicated robotics, cyber security, and Augmented Reality (AR)/Virtual Reality (VR) laboratories that are well-equipped with modern equipment and educational technologies supported by enthusiastic and experienced staff. You will have access to current state-of-the-art software and hardware throughout the course, giving you vital hands-on experience that employers demand.

Course structure

Bachelor of Computer Science

- **Location**: Melbourne Burwood Campus and Cloud Campus
- **Duration**: 3 years full-time study (or part-time equivalent)
- **Intake**: March (Trimester 1), July (Trimester 2)
- **Deakin code**: S306
- **ATAR score**: 65.40 N/A
- **VTAC code**: Melbourne Burwood Campus (1400514151), Cloud Campus (1400614151)

The Bachelor of Computer Science consists of 24 credit points of study, including 17 core units (totalling 18 credit points) including a core industry-based placement unit and six elective units. 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.

Professional industry experience

As a computer science student, you will undertake a core industry-based placement unit as part of your course, which involves a minimum of 100 hours with an approved organisation. An industry-based placement will enable you to experience a professional work environment, develop professional networks and explore career opportunities before you graduate.

For more information, please visit deakin.edu.au/sebe/wil.

Course accreditation

The Bachelor of Computer Science is professionally accredited with the Australian Computer Society (ACS), providing international recognition and graduate eligibility for membership of the ACS.

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1. Lowest selection rank of an applicant to which an offer was made in 2018.
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

As a computer science graduate you will be highly sought after for employment in a range of areas, including: software development, data analytics and machine learning, cognitive computing and intelligent systems, robotics and autonomous systems, telecommunications, entertainment technologies, and technology research and development. You will be well suited to employment in organisations engaged in software development, data analysis, cloud computing infrastructure, and the development of intelligent and autonomous systems and devices.

An honours year is available for high-achieving students upon completion of this course.

This course includes a core internship unit, where you will be required to undertake a minimum of 100 hours in industry, providing professional work experience with an approved host organisation. Students will also have an opportunity to work on industry projects, gaining experience in entrepreneurship and business skills.

Interested in applying?

Entry requirements

Entry for applicants with recent secondary education (previous three years) will be based on their performance in the Victorian Certificate of Education (VCE) or its equivalent, 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.

Entry for applicants with previous Tertiary, VET, life or work experience 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 (in 2018), applications 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, you can apply directly to Deakin for Trimester 1 if you’re not currently enrolled in Year 12 and you haven’t submitted a VTAC application (so long as you’re just applying for one course).

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

T’d like to harness the potential of data science techniques in industries that are more progressive and socially motivated. I’m currently focusing on improving my technical skills while broadening my knowledge of global issues like climate change, economics and sustainability. I’ve also been awarded a New Colombo Plan (NCP) scholarship from the Department of Foreign Affairs, meaning I’ll be studying on exchange and completing an internship in Hong Kong for over one year, representing Deakin and Australia.

Chris Williams
Bachelor of Computer Science