

# Engineering

Melbourne | Geelong | Online



**DEAKIN**  
UNIVERSITY

Civil engineering

Electrical and  
electronics engineering

Environmental engineering

Mechanical engineering

Mechatronics engineering

Software engineering

2021 Undergraduate

# Design the infrastructure of the modern world

Develop the engineering expertise to design infrastructure, power generation and complex mechanical systems. Ranked in the top 1% in the world for engineering and technology<sup>1</sup>, you'll get a competitive edge at Deakin. Tackle real-world engineering problems in collaborative projects with industry partners and through work placements.

<sup>1</sup> Times Higher Education World University Rankings 2019 and 2019 QS World University Rankings.

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Published by Deakin University in March 2020. While the information published in this guide was accurate at the time of publication, Deakin University reserves the right to alter, amend or delete details of course offerings and other information published here. For the most up-to-date course information, please view our website at [deakin.edu.au](https://deakin.edu.au).

Deakin University CRICOS Provider Code: 00113B

# Your future in engineering

## A hands-on approach for a successful career

Gain practical learning experiences throughout your engineering course with our innovative and student-centred teaching method: Project-oriented design-based learning (PODBL). In collaboration with industry, PODB is a key feature of our engineering degrees and will help you graduate ready to excel in your career.

As well as theory-based classes, you'll spend 50% of every trimester learning via team-based projects, taking real-world industry problems, and designing, researching, testing and evaluating solutions, with the support of an academic.

Work integrated learning gives you the chance to undertake a full-time or part-time industry placement as part of your studies.

To learn more about industry placements, visit [deakin.edu.au/sebe/wil](https://deakin.edu.au/sebe/wil).

## Gain professional accreditation

The School of Engineering's long-standing partnership with Engineers Australia is an important relationship and informs our teaching program. This ensures our curriculum is relevant and that you'll graduate with the skill set that employers want. Study civil, electrical and electronics, mechanical or mechatronics engineering and you'll get a degree that's professionally accredited and internationally recognised – so you'll be able to practise as a professional engineer in numerous countries around the world.

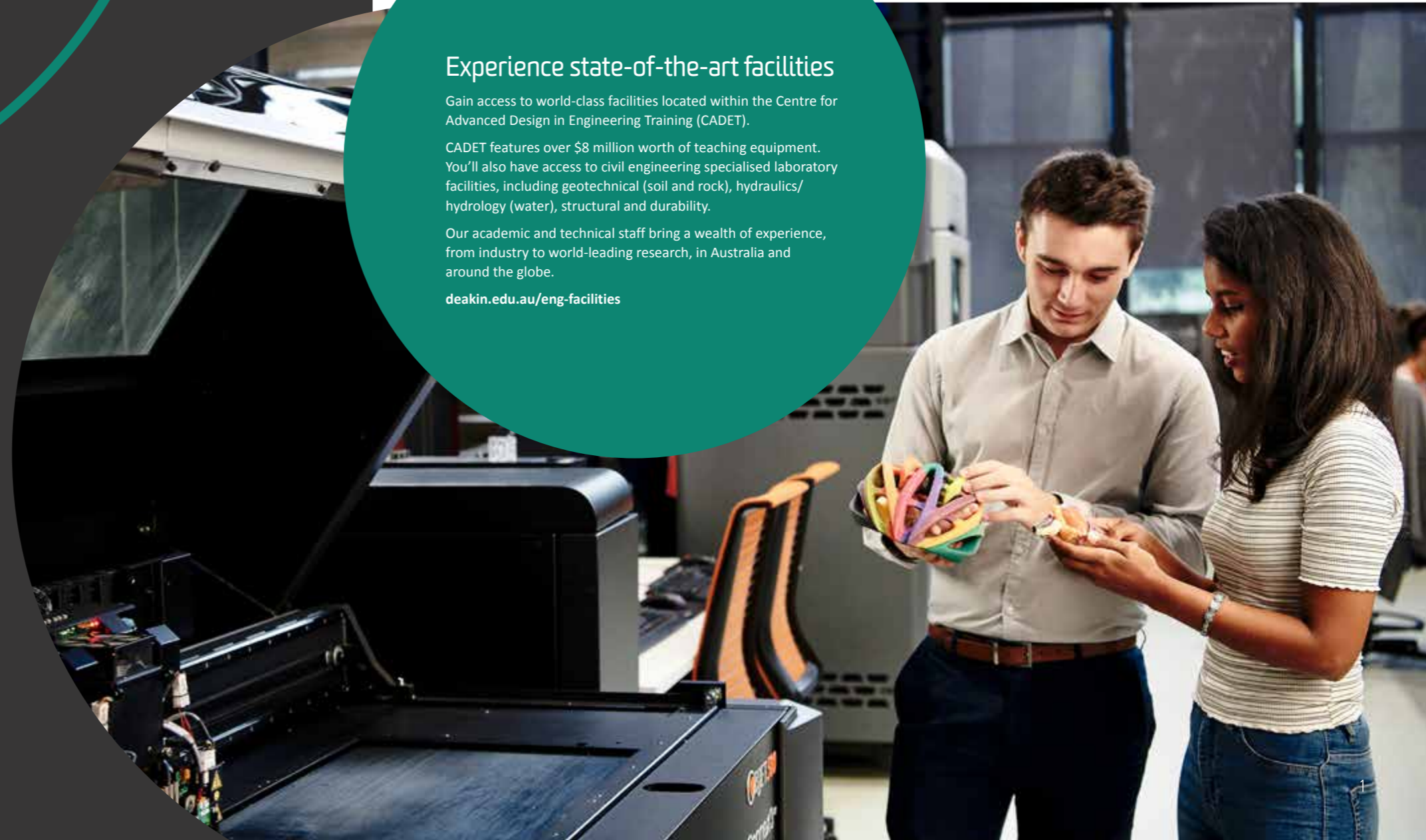
## Experience state-of-the-art facilities

Gain access to world-class facilities located within the Centre for Advanced Design in Engineering Training (CADET).

CADET features over \$8 million worth of teaching equipment. You'll also have access to civil engineering specialised laboratory facilities, including geotechnical (soil and rock), hydraulics/hydrology (water), structural and durability.

Our academic and technical staff bring a wealth of experience, from industry to world-leading research, in Australia and around the globe.

[deakin.edu.au/eng-facilities](https://deakin.edu.au/eng-facilities)



# Your future in engineering

## Real-world connections with industry

Our connection to industry extends beyond curriculum and course design to include student placements, projects and our industry advisory group, which includes members from:

- SEW-EURODRIVE
- AusNet Services
- Iscar
- Thales
- Norman Disney & Young
- Barwon Water
- Ford
- Air Radiators.

## The Bridgestone World Solar Car Challenge

Deakin University has teamed up with leading renewable energy company Acciona to participate in the 2021 Bridgestone World Solar Car Challenge. The challenge? A 3,000km road race from Darwin to Adelaide with a vehicle powered primarily by solar energy, developed and built entirely by the bright minds of Deakin STEM students.

Collaborations like this give Deakin STEM students the opportunity to work in an expanding industry with state-of-the-art technology that adds invaluable experience to their resume. Students will turn theory into practice, by engineering a roadworthy, energy-efficient vehicle and promoting sustainable industrialisation for future industries.

Deakin will compete against other world class educational institutions, as students work in a team to push the boundaries of technology, and make advancements for solar vehicles.

## Award recipients for the promotion of gender equity in STEM

Deakin has received the prestigious Athena SWAN Institutional Bronze Award for its programs that encourage more women to study, research and work in Science, Technology, Engineering, Mathematics and Medicine (STEMM).

The Athena SWAN program is run by Science in Australia Gender Equity (SAGE), and the Bronze award recognises Deakin's extensive work in promoting gender equity, inclusivity and diversity.

## #1 university in Victoria for student satisfaction

Year on year, our students are the most satisfied students of all Victorian universities<sup>1</sup>. We've ranked this highly for the past 10 years, with students being particularly happy with our:

- teaching
- learning resources
- student support
- skills development
- learner engagement.

## Travel the world

### Deakin Abroad

Explore our various overseas programs, including trimester abroad, short-term partner programs, faculty-led study programs, overseas internships and international volunteering opportunities. Deakin engineering students have studied and completed work experience in a range of countries, including China, India, Taiwan, Malaysia, USA and Sweden. Study abroad programs offer you the opportunity to pursue your degree while learning about techniques and theories that foreign countries employ, enhancing your career opportunities.

[deakin.edu.au/overseas-study](https://deakin.edu.au/overseas-study)

## Skills to get you a job

Gain a competitive edge in the workplace with real-world expertise and practical skills. Deakin is ranked the #1 university for both generic skills and good teaching in Victoria.<sup>2</sup>

- 1 Australian Graduate Survey 2010–2015, Graduate Outcomes Survey 2016–2019 (GOS), Quality Indicators for Learning and Teaching (QILT).
- 2 Graduate Outcomes Survey 2019.

# Disciplines

Choose your area of expertise from our disciplines (also known as study areas). Knowing which discipline you're interested in helps career advisers find the best course for your interests. Visit [deakin.edu.au](https://deakin.edu.au) for detailed discipline and course information, including a description of the units within each degree.

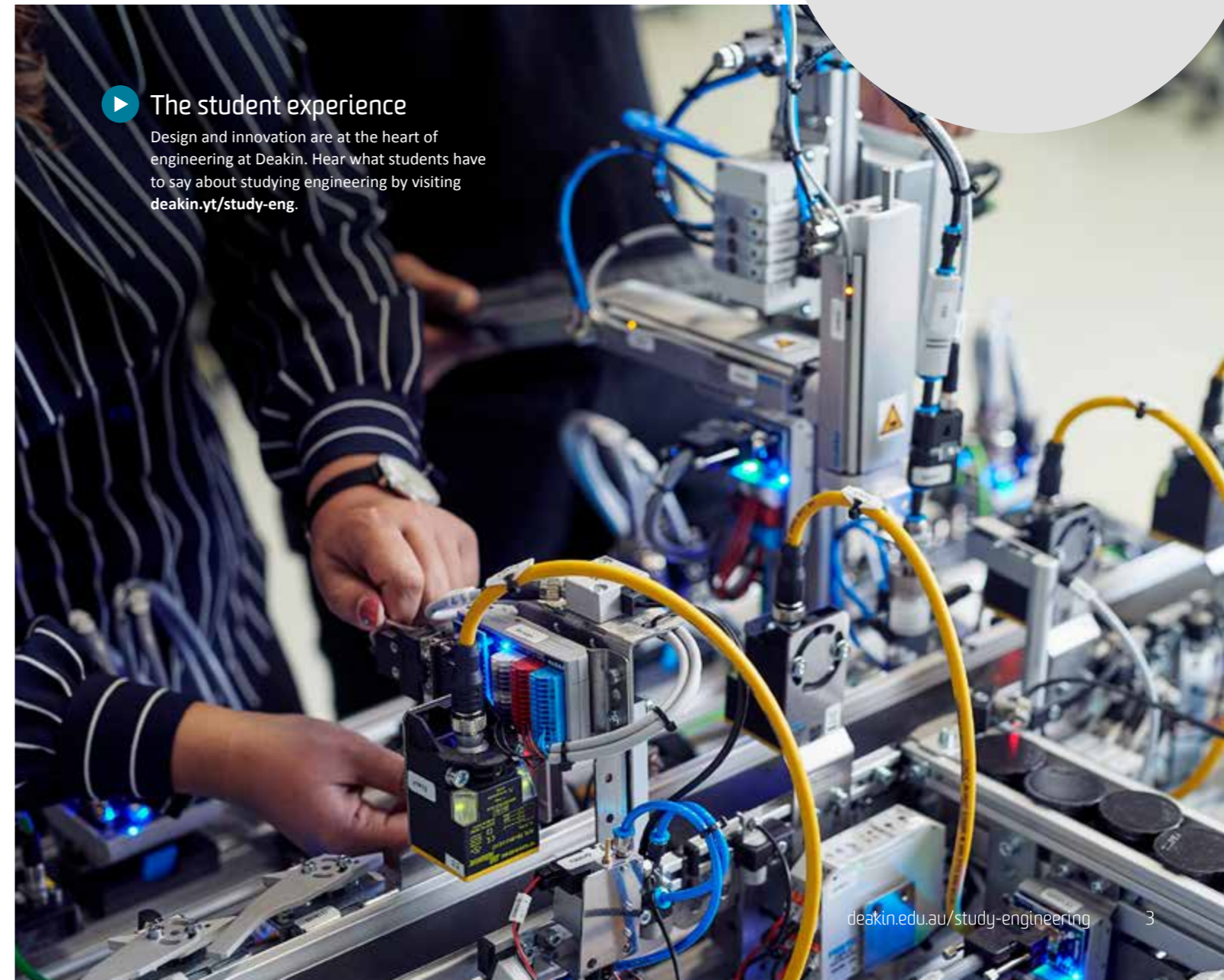
- Civil engineering
- Electrical and electronics engineering
- Environmental engineering
- Mechanical engineering
- Mechatronics engineering
- Software engineering

## Courses to careers

Visit [explore.deakin.edu.au](https://explore.deakin.edu.au) to kickstart your course and career exploration. With more than 600 paired courses and careers, it's the perfect destination for you to discover your future career.

## The student experience

Design and innovation are at the heart of engineering at Deakin. Hear what students have to say about studying engineering by visiting [deakin.yt/study-eng](https://deakin.yt/study-eng).



## Bachelor of Civil Engineering (Honours) **5460** **C**<sup>1</sup> **B**<sup>2</sup> **WF** **4** T1, T2<sup>3</sup>

Graduate as an industry-ready civil engineer by studying Deakin's Bachelor of Civil Engineering (Honours). You'll combine contemporary theory with hands-on projects to develop the skills needed to confidently design, construct and maintain the built infrastructure systems that are vital in our day-to-day lives. Our Bachelor of Civil Engineering (Honours) covers all the four main areas in civil engineering, namely, structural, water, geotechnical, and road and transport engineering.



### Professional recognition

This course is accredited by Engineers Australia, which gives graduates international recognition and the ability to practise as professional engineers in many countries around the world.

Professional Engineering Practice is a compulsory unit in all Deakin engineering degrees. This means you'll have a minimum of 60 days' work experience in one or more organisations, giving you insight into your future career options. You'll also study a range of project-oriented design-based learning and project-based learning units, bringing together theory, site studies and laboratory investigations.

### Careers

With an international skills shortage in the engineering industry, and roles expected to rise significantly in the next five years, Deakin graduates are in demand both in Australia and further abroad.

Not only that, employers seek out Deakin graduates for their forward-thinking, innovative and entrepreneurial qualities.

Graduates can work in a wide range of areas and industries, including:

- construction companies
- councils
- engineering consultancy firms
- road and transport authorities
- water authorities
- mining industry
- government bodies
- public works departments

and, also take a wide range of roles, including:

- geotechnical engineers
- research engineers
- road engineers
- transportation engineers
- railway engineers
- infrastructure engineers
- structural engineers.



'I always wanted to become a civil engineer. Looking at Deakin's course content, I realised that it's more industry-oriented and I thought that would provide a great entry into my dream job as a civil engineer.'

**Raveena Ranepura Dewage**  
 Bachelor of Civil Engineering (Honours) student

## IGNITED Scholarship for women in engineering

If you're female and about to start an undergraduate degree in engineering, information technology or construction management, you could be eligible for an IGNITED Scholarship, designed to ignite women's interest in industry areas traditionally dominated by men.

Each scholarship is valued at \$5000 per year over the normal duration of the course and recipients are also assigned an academic mentor.

Women embarking on the following courses can apply for the scholarship:

- Bachelor of Computer Science
- Bachelor of Construction Management (Honours)
- Bachelor of Cyber Security
- Bachelor of Information Technology
- Bachelor of Software Engineering (Honours)
- Bachelor of Civil Engineering (Honours)
- Bachelor of Electrical and Electronics Engineering (Honours)
- Bachelor of Environmental Engineering (Honours)
- Bachelor of Mechanical Engineering (Honours)
- Bachelor of Mechatronics Engineering (Honours)

[deakin.edu.au/ignited-scholarship](http://deakin.edu.au/ignited-scholarship)



### Course structure<sup>4,5</sup>

This 32-credit-point course consists of 31 credit points of core units and one elective unit.

	Trimester 1	Trimester 2
<b>Year 1</b>	Design Fundamentals (2 credit points) Applied Algebra and Statistics Engineering Physics	Materials Engineering Project (2 credit points) Introduction to Mathematical Modelling Programming for Engineers
<b>Year 2</b>	Geotechnical Investigation and Design (2 credit points) Engineering Modelling Fluid Mechanics	Structural Design (2 credit points) Construction Engineering Road and Pavement Engineering
<b>Year 3</b>	Water Engineering Design (2 credit points) Theory of Structures Hydrology and Hydraulics	Reinforced Concrete Design (2 credit points) Geotechnical Engineering Steel and Timber Structures
<b>Year 4</b>	Engineering Project A (2 credit points) Traffic and Transport Engineering Elective	Engineering Project B (2 credit points) Infrastructure Engineering Professional Engineering Practice

[deakin.edu.au/course/bachelor-civil-engineering-honours](http://deakin.edu.au/course/bachelor-civil-engineering-honours)

1 Cloud Campus students are required to participate in campus-based intensive activities each trimester at the Geelong Warrn Ponds Campus.  
 2 Only the first year of engineering is available at the Melbourne Burwood Campus. Students undertaking first year at the Melbourne Burwood Campus are required to complete their course either at the Geelong Warrn Ponds Campus or Cloud Campus.  
 3 Trimester 2 intake is only available at the Geelong Warrn Ponds Campus and Cloud Campus.  
 4 This course structure should be used as a guide only and advice should be sought when selecting units.  
 5 Academic Integrity (STP050), Career Tools for Employability (STP010) and Introduction to Safety and Project Oriented Learning (SEJ010) are compulsory 0-credit-point units that you must undertake as part of this course.

## AusNet Services Women in Power Engineering Scholarship

AusNet Services offers a number of scholarships to encourage successful female students into engineering disciplines. The Women in Power Engineering Scholarship is available to females entering the Bachelor of Electrical and Electronics Engineering (Honours) or Bachelor of Mechatronics Engineering (Honours) – with successful applicants receiving a cash payment of up to \$10,000 per year for the normal duration of the course.

[deakin.edu.au/ausnet-services-women-in-power-engineering-scholarship](http://deakin.edu.au/ausnet-services-women-in-power-engineering-scholarship)

## Bachelor of Electrical and Electronics Engineering (Honours)

Gain market-ready skills when you study electrical engineering, including skills in renewables and alternative energy generation, and understand the role of energy production in climate change. You'll get hands-on experience and theoretical knowledge to tackle energy production in a changing world with Deakin's Bachelor of Electrical and Electronics Engineering (Honours).

### Work experience

Professional Engineering Practice is a compulsory unit in all Deakin engineering degrees. This means you'll have a minimum of 60 days' work experience in one or more organisations, giving you insight into your future career options. You'll also study a range of project-oriented design-based learning and project-based learning units, bringing together theory, site studies and laboratory investigations, including Electrical Systems Engineering Project, Power System Protection Design and Safety.

### Careers

Deakin's Bachelor of Electrical and Electronics Engineering (Honours) graduates may find employment across a range of roles, including:

- automotive electrician
- clear car engineer
- design engineer
- electrical design engineer
- electronic test engineer
- industrial engineer
- multimedia systems specialist
- PLC programmer
- power engineer
- research engineer
- robotics engineer and technician
- solar cell technician
- special effects technician
- telecommunications engineer.

### Course structure<sup>4,5</sup>

This 32-credit-point course consists of 31 credit points of core units and one elective unit.

	Trimester 1	Trimester 2
<b>Year 1</b>	Design Fundamentals (2 credit points) Engineering Physics Applied Algebra and Statistics	Electrical Systems Engineering Project (2 credit points) Introduction to Mathematical Modelling Programming for Engineers
<b>Year 2</b>	Power Engineering Design (2 credit points) Engineering Modelling Analogue and Digital Electronics	Distributed Generation System Embedded System Design (2 credit points) Power Electronics
<b>Year 3</b>	Transmission and Distribution System Design (2 credit points) Systems and Signals Data Communication	Power System Protection Design and Safety (2 credit points) Electrical Machines and Drives Control Systems
<b>Year 4</b>	Engineering Project A (2 credit points) SCADA and PLC Elective	Engineering Project B (2 credit points) Power System Analysis Professional Engineering Practice

[deakin.edu.au/course/bachelor-electrical-and-electronics-engineering-honours](http://deakin.edu.au/course/bachelor-electrical-and-electronics-engineering-honours)

### Professional recognition

This course is accredited by Engineers Australia, which gives graduates international recognition and the ability to practise as professional engineers in many countries around the world.



1 Cloud Campus students are required to participate in campus-based intensive activities each trimester at the Geelong Warrn Ponds Campus.  
2 Only the first year of engineering is available at the Melbourne Burwood Campus. Students undertaking first year at the Melbourne Burwood Campus are required to complete their course either at the Geelong Warrn Ponds Campus or Cloud Campus.  
3 Trimester 2 intake is only available at the Geelong Warrn Ponds Campus and Cloud Campus.  
4 This course structure should be used as a guide only and advice should be sought when selecting units.  
5 Academic Integrity (STP050), Career Tools for Employability (STP010) and Introduction to Safety and Project Oriented Learning (SEJ010) are compulsory 0-credit-point units that you must undertake as part of this course.

## Bachelor of Environmental Engineering (Honours)

S465 WP 4 T1, T2

Graduate industry-ready to tackle global environmental issues such as climate change, sustainability, and pollution, when you study environmental engineering at Deakin. Gain a broad knowledge across the industry, with solutions-led technical skills to put you in high demand in this ever-changing field.

### Work experience

You'll gain industry experience by completing at least 60 days of practical work experience in an engineering workplace, developing and enhancing your understanding of the environmental engineering profession, career outcomes and the opportunity to establish valuable professional networks.

### Careers

Graduates will be in high demand in this rapidly evolving field, addressing global issues like climate change impacts and improving sustainability across a range of industries. Graduates may find employment in:

- air pollution and emissions control
- catchment and natural resource management
- environmental protection
- environmental consultancy
- government departments – local, state or federal
- resources – mining, oil and gas
- waste management and recycling
- water and wastewater treatment.

### Course structure<sup>1,2</sup>

This 32-credit-point course consists of 31 credit points of core units and one elective unit.

	Trimester 1	Trimester 2
<b>Year 1</b>	Environmental Design Ecology and the Environment Applied Algebra and Statistics Engineering Physics	Chemistry for the Professional Sciences Global Environmental Systems Introduction to Mathematical Modelling Programming for Engineers
<b>Year 2</b>	Environmental Analysis (2 credit points) Engineering Modelling Fluid Mechanics	Environmental Health Engineering (2 credit points) Introduction to Geographic Information Systems Analysing Marine Dynamics
<b>Year 3</b>	Water Engineering Design (2 credit points) Air and Noise Pollution and Control Hydrology and Hydraulics	Waste Management Systems (2 credit points) Environmental Protection and Planning Risks to Healthy Environments
<b>Year 4</b>	Engineering Project A (2 credit points) Integrated Catchment Systems Elective	Engineering Project B (2 credit points) Infrastructure Engineering Professional Engineering Practice <sup>3</sup>

[deakin.edu.au/course/bachelor-environmental-engineering-honours](http://deakin.edu.au/course/bachelor-environmental-engineering-honours)

### Professional recognition

This course has been designed in accordance to Engineers Australia's professional accreditation requirements. Deakin has been awarded provisional accreditation for the Bachelor of Environmental Engineering (Honours) with the Engineers Australia (EA).

### The student experience

Want to make or design sustainable solutions for our future? Our students discuss their experience studying environmental engineering at Deakin. [deakin.yt/enviro-eng](http://deakin.yt/enviro-eng)

1 This course structure should be used as a guide only and advice should be sought when selecting units.  
2 Academic Integrity (STP050), Career Tools for Employability (STP010), Introduction to Safety and Project Oriented Learning (SEJ010) and Laboratory and Fieldwork Safety Induction program (SLE010) are compulsory 0-credit-point units that you must undertake as part of this course.  
3 This unit is offered Trimester 1, 2 or 3.



'The teaching and support staff at Deakin are brilliant. They each have remarkable workplace expertise that they bring to life in academic material, and course work is built around real-world application.'

**Vaughn Mitchell**  
Bachelor of Environmental Engineering (Honours) student

# Courses

Deakin code	S342	Cloud Campus	C
Course duration in years	3	Melbourne Burwood Campus	B
Trimester	T	Geelong Waterfront Campus	WF
		Geelong Warrn Ponds Campus	WP
		Warrnambool Campus	WB

## Bachelor of Mechanical Engineering (Honours)

S462 C<sup>1</sup> B<sup>2</sup> WP<sup>4</sup> T1, T2<sup>3</sup>

If you're curious about the way things work, Deakin's Bachelor of Mechanical Engineering (Honours) allows you to turn your passion into a rewarding career. 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 Deakin's multi-million dollar engineering facility, CADET.

### Work experience

Professional Engineering Practice is a compulsory unit in all Deakin engineering degrees. This means you'll have a minimum of 60 days' work experience in one or more organisations, providing insight into your future career options. You'll also study a range of project-oriented design-based learning units, where you will learn fundamental theory and apply it to industry-relevant projects to develop innovative solutions to real-world problems.

During the course you'll cover core mechanical disciplines including machine, structural and thermo-fluids design and industrial control, while developing professional skills in project management, communication, and teamwork. You'll also have opportunities to test your mechanical design and engineering skills in challenges such as the Shell Eco Marathon and Warman international and national competitions.

### Careers

With an international skills shortage in the engineering industry, and roles expected to rise significantly in the next five years, Deakin graduates are in demand both in Australia and further abroad. Mix electrical, mechanical and robotics engineering into a single degree to secure your future career in a diverse range of industries developing the systems of the future.

### Course structure<sup>4,5</sup>

This 32-credit-point course consists of 31 credit points of core units and one elective unit.

	Trimester 1	Trimester 2
<b>Year 1</b>	Design Fundamentals (2 credit points) Engineering Physics Applied Algebra and Statistics	Materials Engineering Project (2 credit points) Introduction to Mathematical Modelling Programming for Engineers
<b>Year 2</b>	Machine Design (2 credit points) Fluid Mechanics Engineering Modelling	Structural Design (2 credit points) Stress and Failure Analysis Thermodynamics
<b>Year 3</b>	Thermo-Fluid System Design (2 credit points) Product Development Manufacturing	Industrial Control (2 credit points) Advanced Stress Analysis Dynamics of Machines
<b>Year 4</b>	Engineering Project A (2 credit points) Computational Fluid Dynamics Elective	Engineering Project B (2 credit points) Advanced Modelling and Simulation Professional Engineering Practice

[deakin.edu.au/course/bachelor-mechanical-engineering-honours](https://deakin.edu.au/course/bachelor-mechanical-engineering-honours)

Graduate ready to transition into a number of areas and roles including:

- advanced manufacturing
- aerospace
- automotive
- biomedical
- consultant
- control and systems design
- defence
- field and test engineering
- mining
- product development
- railroad
- research and development
- textiles.

Today, mechanical engineers lend their skills to the development of almost every design imaginable – especially complex products like cars, aeroplanes, biomedical devices and renewable energy systems.

### Professional recognition

This course is accredited by Engineers Australia, which gives graduates international recognition and the ability to practise as professional engineers in many countries around the world.



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

## Bachelor of Mechatronics Engineering (Honours)

S463 C<sup>1</sup> B<sup>2</sup> WP<sup>4</sup> T1, T2<sup>3</sup>

Deakin's Bachelor of Mechatronics Engineering (Honours) prepares you to be an industry-ready professional engineer, capable of creating the electronics, robots and autonomous systems that power our future.

With ground-breaking facilities and a strong focus on project-based learning, we're changing the way students train to become engineers.

### Work experience

Professional Engineering Practice is a compulsory unit in all Deakin engineering degrees. This means you'll have a minimum of 60 days' work experience in one or more organisations, providing insight into your future career options. You'll also study a range of project-oriented design-based learning and project-based learning units, bringing together theory, site studies and laboratory investigations, including Design Fundamentals, Electrical Systems Engineering Project and Embedded System Design.

### Careers

With an international skills shortage in the industry, and roles expected to rise significantly in the next five years, Deakin graduates are in demand both in Australia and further abroad.

Not only that, employers seek out Deakin graduates for their forward-thinking, innovative and entrepreneurial qualities.

As a mechatronics engineering graduate, you could be employed in the following roles:

- automation engineer
- biomedical service engineer
- control systems engineer
- electronics test engineer
- robotics engineer.

### Professional recognition

This course is accredited by Engineers Australia, which gives graduates international recognition and the ability to practise as professional engineers in many countries around the world.



In second year students design a robot for potential entry into the Warman Competition, a national competition organised by Engineers Australia.

### The student experience

Mechatronics is more than just robots; it's the future of the industry. Two of our students discuss the benefits of the multidisciplinary course and the hands-on learning approach at Deakin. [deakin.yt/mechatronics-eng](https://deakin.yt/mechatronics-eng)

### Course structure<sup>4,5</sup>

This 32-credit-point course consists of 30 credit points of core units and two elective units.

	Trimester 1	Trimester 2
<b>Year 1</b>	Design Fundamentals (2 credit points) Engineering Physics Applied Algebra and Statistics	Electrical Systems Engineering Project (2 credit points) Introduction to Mathematical Modelling Programming for Engineers
<b>Year 2</b>	Machine Design (2 credit points) Analogue and Digital Electronics Engineering Modelling	Embedded System Design <sup>6</sup> (2 credit points) Programming and Visualisation Power Electronics
<b>Year 3</b>	Mechatronic Design (2 credit points) Artificial Intelligence for Autonomous Systems Data Communication	Electromechanical Systems Design (2 credit points) Control Systems Dynamics of Machines
<b>Year 4</b>	Engineering Project A (2 credit points) Elective x 2	Engineering Project B (2 credit points) Virtual and Augmented Interfaces Professional Engineering Practice

[deakin.edu.au/course/bachelor-mechatronics-engineering-honours](https://deakin.edu.au/course/bachelor-mechatronics-engineering-honours)

1 Cloud Campus students are required to participate in campus-based intensive activities each trimester at the Geelong Warrn Ponds Campus.  
2 Only the first year of engineering is available at the Melbourne Burwood Campus. Students undertaking first year at the Melbourne Burwood Campus are required to complete their course either at the Geelong Warrn Ponds Campus or Cloud Campus.  
3 Trimester 2 intake only available at the Geelong Warrn Ponds Campus and Cloud Campus.  
4 This course structure should be used as a guide only and advice should be sought when selecting units.  
5 Academic Integrity (STP050), Career Tools for Employability (STP010) and Introduction to Safety and Project Oriented Learning (SEJ010) are compulsory 0-credit-point units that you must undertake as part of this course.  
6 Career Tools for Employability (STP010) must be completed before commencing this unit.

# Courses

## Bachelor of Software Engineering (Honours)

5464    T1, T2

Create the smart software and systems of the future and safeguard your career by driving digital transformation as an innovative software engineer. As a software engineering student at Deakin, you'll gain specialised skills in robotics, cyber-physical systems and the internet-of-things. Upon graduation you'll be well-equipped to find work developing and implementing state-of-the-art smart systems or frameworks into various existing industries such as health, fitness and travel.

### 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](https://deakin.edu.au/sebe/wil) to find out more information.

### The student experience

Learn to shape the software systems of the future and drive digital transformations as an innovative software engineer.

[deakin.yt/software-eng](https://deakin.yt/software-eng)

### Join our Peer Support Network (PSN)

Sign up to the Faculty of Science, Engineering and Built Environment's PSN in your first year at Deakin to get support and guidance from more senior students in your course. You'll learn about the support services and facilities available, while gaining useful tips about studying at Deakin.

[deakin.edu.au/sebe/peer-support](https://deakin.edu.au/sebe/peer-support)

Deakin code	5342	Cloud Campus	
Course duration in years	3	Melbourne Burwood Campus	
Trimester	T	Geelong Waterfront Campus	
		Geelong Waurn Ponds Campus	
		Warrnambool Campus	

### Professional recognition

This course has been designed in accordance with Engineers Australia's and the Australian Computer Society's professional accreditation requirements. Deakin has been awarded accreditation for the Bachelor of Software Engineering (Honours) with the Australian Computer Society (ACS). Deakin has been awarded provisional accreditation for the Bachelor of Software Engineering (Honours) with Engineers Australia.

### Careers

Graduates will be equipped to find employment in diverse areas of software engineering. You'll be able to develop and implement state-of-the-art smart devices, systems and application frameworks for industries including health, agriculture, manufacturing and transport.

This can lead to employment in roles such as:

- business analyst
- data engineer
- DevOps engineer
- embedded systems developer
- IoT system engineer
- machine learning engineer
- mobile applications developer
- project manager
- software engineer
- software developer
- systems architect
- web applications developer.

### Course structure

32 credit points – 23 core units (totalling 28 credit points), which include a compulsory internship unit, four elective units and four 0-credit-point units relating to safety and project orientated learning, safety induction, work placements and academic integrity.

For more information about this course, please refer to Deakin's 2021 *Undergraduate Information technology* booklet or visit [deakin.edu.au/course/bachelor-software-engineering-honours](https://deakin.edu.au/course/bachelor-software-engineering-honours).

## Related course

### Bachelor of Construction Management (Honours)

5346   T1, T2

Develop a strong understanding of the business of construction, from law to technology. The Bachelor of Construction Management (Honours) will equip you with market-ready skills for construction management, estimating, surveying or property development – working across projects large and small.

For more information about this course, please refer to Deakin's 2021 *Undergraduate Architecture and construction management* booklet or visit [deakin.edu.au/course/bachelor-construction-management-honours](https://deakin.edu.au/course/bachelor-construction-management-honours).

## Gain a scholarship to help you fund your degree

### Barwon Water Scholarship

If you're a Geelong campus-based commencing student studying an undergraduate degree in one of the following disciplines: engineering, commerce, finance, information technology, public relations, journalism or human resource management, we encourage you to apply for this scholarship. This scholarship is valued at \$2000 per year, with a total scholarship value of \$6000.

[deakin.edu.au/barwon-water-scholarship](https://deakin.edu.au/barwon-water-scholarship)

### Barwon Water Scholarship for Women in STEM

Female students commencing their first year of study in a course offered by the Faculty of Science, Engineering and Built Environment at the Geelong Waurn Ponds Campus or Geelong Waterfront Campus, are encouraged to apply for a Barwon Water Scholarship for Women in STEM. This scholarship is valued at \$2000 per year, with a total scholarship value of \$6000.

[deakin.edu.au/barwon-water-women-scholarship](https://deakin.edu.au/barwon-water-women-scholarship)

## #1 careers service in Australia<sup>1</sup>

Prepare yourself for the jobs and careers of the future. Access our career centre, DeakinTalent, and use its programs and services to research different career options, hone your interview skills, look for casual work while you study or find a graduate job.

[deakintalent.deakin.edu.au](https://deakintalent.deakin.edu.au)

<sup>1</sup> Australian Graduate Recruitment Industry Awards (AGRIA) – 2017, 2018 and 2019.

Course and entry requirements	Campus and ATAR	Course duration	Trimester intakes	Fee <sup>1</sup>
<b>Bachelor of Civil Engineering (Honours)   S460</b> <b>Y12</b> <sup>2,3</sup> VCE units 3 and 4 – a study score of at least 25 in English (EAL) or at least 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. <b>NY12</b> <sup>3,4</sup> As for Year 12 or equivalent, for further information refer to <a href="http://deakin.edu.au/course/S460">deakin.edu.au/course/S460</a>	<b>C</b> <sup>5</sup> NP <b>B</b> <sup>6</sup> 70.10 <b>WP</b> 64.05	4	T1, T2	\$9527
<b>Bachelor of Electrical and Electronics Engineering (Honours)   S461</b> <b>Y12</b> <sup>2,3</sup> VCE units 3 and 4 – a study score of at least 25 in English (EAL) or at least 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. <b>NY12</b> <sup>3,4</sup> As for Year 12 or equivalent, for further information refer to <a href="http://deakin.edu.au/course/S461">deakin.edu.au/course/S461</a>	<b>C</b> <sup>5</sup> NP <b>B</b> <sup>6</sup> 75.10 <b>WP</b> 69.00	4	T1, T2	\$9527
<b>Bachelor of Environmental Engineering (Honours)   S465</b> <b>Y12</b> <sup>2,3</sup> VCE units 3 and 4 – a study score of at least 25 in English (EAL) or at least 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. <b>NY12</b> <sup>3,4</sup> As for Year 12 or equivalent, for further information refer to <a href="http://deakin.edu.au/course/S465">deakin.edu.au/course/S465</a>	<b>WP</b> 69.00	4	T1, T2	\$9527
<b>Bachelor of Mechanical Engineering (Honours)   S462</b> <b>Y12</b> <sup>2,3</sup> VCE units 3 and 4 – a study score of at least 25 in English (EAL) or at least 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. <b>NY12</b> <sup>3,4</sup> As for Year 12 or equivalent, for further information refer to <a href="http://deakin.edu.au/course/S462">deakin.edu.au/course/S462</a>	<b>C</b> <sup>5</sup> NP <b>B</b> <sup>6</sup> 71.80 <b>WP</b> 67.75	4	T1, T2	\$9520
<b>Bachelor of Mechatronics Engineering (Honours)   S463</b> <b>Y12</b> <sup>2,3</sup> VCE units 3 and 4 – a study score of at least 25 in English (EAL) or at least 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. <b>NY12</b> <sup>3,4</sup> As for Year 12 or equivalent, for further information refer to <a href="http://deakin.edu.au/course/S463">deakin.edu.au/course/S463</a>	<b>C</b> <sup>5</sup> NP <b>B</b> <sup>6</sup> 71.75 <b>WP</b> 67.40	4	T1, T2	\$9527
<b>Bachelor of Software Engineering (Honours)   S464</b> <b>Y12</b> <sup>2,3</sup> VCE units 3 and 4 – a study score of at least 25 in English (EAL) or at least 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. <b>NY12</b> <sup>3,4</sup> As for Year 12 or equivalent, for further information refer to <a href="http://deakin.edu.au/course/S464">deakin.edu.au/course/S464</a>	<b>C</b> NP <b>B</b> 64.40	4	T1, T2	\$9527

**Related course**

<b>Bachelor of Construction Management (Honours)   S346</b> <b>Y12</b> <sup>2,3</sup> VCE units 3 and 4 – a study score of at least 25 in English (EAL) or at least 20 in English other than EAL. <b>NY12</b> <sup>3,4</sup> As for Year 12 or equivalent, for further information refer to <a href="http://deakin.edu.au/course/S346">deakin.edu.au/course/S346</a>	<b>WF</b> 60.40	4 <sup>7</sup>	T1, T2	\$9462
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- The 2020 indicative Commonwealth Supported Place (CSP) fee is based on a typical enrolment for an Australian domestic student enrolled in two trimesters of full-time study, or 8 credit points, unless otherwise indicated. This fee should be used as a guide only and is subject to change.
  - Recent secondary education applicants include current Year 12 students in 2020, as well as Year 12 graduates from 2019 and 2018.
  - International student entry requirements can be found at: [deakin.edu.au/international-students](http://deakin.edu.au/international-students).
  - There are four categories under which non-Year 12 applicants may apply to Deakin:
    - applicants with higher education study
    - applicants with Vocational Education and Training (VET) study
    - applicants with work and life experience
    - applicants who completed Year 12 in 2017 or earlier.
 Visit [deakin.edu.au/course](http://deakin.edu.au/course) and head to the course of interest to find out further details on admission requirements.
  - Cloud Campus students will be required to participate in campus-based intensive activities each trimester at the Geelong Warrn Ponds Campus.
  - Only the first year of engineering is available at the Melbourne Burwood Campus. Students undertaking first year at the Melbourne Burwood Campus are required to complete their course either at the Geelong Warrn Ponds Campus or Cloud Campus.
  - Students have the opportunity to complete this course in three years of full-time study by undertaking units in Trimester 3.
- NP means not published – less than five offers made to recent secondary education applicants.

Recent secondary education Non-Year 12

Cloud Campus **C**  
 Melbourne Burwood Campus **B**  
 Geelong Waterfront Campus **WF**  
 Geelong Warrn Ponds Campus **WP**  
 Warrnambool Campus **WB**

**this.**

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Visit [this.deakin.edu.au](http://this.deakin.edu.au) to help you reach your potential in Year 12 and beyond. Hear from academic experts, industry professionals and inspirational students.

Deakin understands that evidencing and articulating your capabilities is vital to gaining opportunities. Deakin Hallmarks are prestigious University awards that recognise students' outstanding achievements and capabilities that are key to employment success. After graduating, they offer students the opportunity to differentiate themselves to employers. To find out more visit [deakin.edu.au/hallmarks](http://deakin.edu.au/hallmarks), including how Hallmarks are awarded.

Communication	Digital literacy	Teamwork	Critical thinking	Problem solving	Self management	Global citizenship	Creativity	Digital innovation	Entrepreneurial thinking	Leadership

# Contact us

**We're here to help**  
 We have staff at each of our campuses who are more than happy to answer your general queries.

**Prospective student enquiries**

**Domestic students**  
 1800 693 888  
[myfuture@deakin.edu.au](mailto:myfuture@deakin.edu.au)

**International students**  
 +61 3 9627 4877  
[study@deakin.edu.au](mailto:study@deakin.edu.au)

**Discover Deakin**  
 To stay up to date with all course information sessions and events for prospective undergraduate students, visit [deakin.edu.au/discover-deakin](http://deakin.edu.au/discover-deakin).

**Social media at Deakin**

- [facebook.com/DeakinUniversity](https://facebook.com/DeakinUniversity)
- [facebook.com/DeakinSciTech](https://facebook.com/DeakinSciTech)
- [twitter.com/Deakin](https://twitter.com/Deakin)
- [twitter.com/DeakinSEBE](https://twitter.com/DeakinSEBE)
- [instagram.com/DeakinUniversity](https://instagram.com/DeakinUniversity)
- [Search Deakin University](https://www.linkedin.com/company/deakin-university)

**Other useful websites**

- [vtac.edu.au](http://vtac.edu.au)
- [studyassist.gov.au](http://studyassist.gov.au)
- [myfuture.edu.au](http://myfuture.edu.au)
- [youth.gov.au](http://youth.gov.au)
- [youthcentral.vic.gov.au](http://youthcentral.vic.gov.au)