

# Harness your ideas to create a brighter future

Shape cutting-edge concepts, adapt to industry trends and access the very latest technology at Deakin. Our design courses offer sought-after industry links and a chance to develop your practical skills to give you a competitive edge in a future-focused career.

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Deakin University CRICOS Provider Code: 00113B

## Your future in design

### Strong industry links to get you ahead

Design degrees at Deakin are informed by industry leaders across the world. We're active members of the Design Institute of Australia (DIA) and the International Council of Design (Ico-D) and support the Australian Graphic Design Association (AGDA). Our design degrees are formally recognised by the DIA and meet industry standards, so that you stand out to employers when you graduate.

Our engineering degrees are developed in collaboration with Engineers Australia. This long-standing partnership ensures that our curriculum's relevant and you develop skills that employers are looking for.

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

Our engineering industry connections extend beyond course design to include student placements, projects and our industry advisory group which includes members from:

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

Deakin's architecture qualifications are recognised nationally by industry through course accreditations and are regularly examined by key professional groups such as Australian Institute of Architects (AIA), Architects Accreditation Council of Australia (AACA) and Architects Registration Board of Victoria (ARBV). Our Bachelor of Design (Architecture) and Master of Architecture are also recognised internationally, for example, by the Board of Architects Malaysia. Through these courses, you'll also have an opportunity to undertake a discipline-specific industry placement, so you can get on-the-job training.



# Your future in design

### Get hands-on in state-of-the-art facilities

Learn in purpose-built design facilities across all of our campuses to enhance your knowledge and gain practical skills to prepare you for work once you graduate. Enjoy extensive access to cutting-edge equipment in dedicated design, engineering and architecture studios, with a focus on design and innovative approaches to learning.

### Centre for Advanced Design in Engineering Training (CADET)

Access some of the best engineering facilities in Australia to create your designs through combinations of:

- computer simulation
- prototyping
- testing
- manufacturing.

### a+b studio

Our open plan design studio is a great place to get creative and collaborate on projects.

### Architecture and built environment workshop

Create models in a hands-on environment with:

- laser cutters
- 3D printers
- a full selection of hand and electric tools.

### **Phoenix Gallery at the Melbourne Burwood Campus** Showcase your talents through mixed-media and pop-up installations.

### Dedicated workspaces

Develop your skills in our:

- design studios
- digital photography printing and editing facilities
- photographic darkroom
- creative media labs.

### The Project Space at the Geelong Waterfront Campus

 $\label{eq:contemporary} \mbox{ Exhibit your work at our contemporary and experimental gallery space.}$ 

### Gain the skills that employers value

From your first year, you'll gain practical, hands-on design experience. In architecture you'll:

- build models
- examine professional architects' projects
- develop drawing, digital design and communication skills.

As a design student, you'll collaborate with students across other disciplines to encourage innovation and graduate as a well-rounded creative practitioner. Project-Oriented Design-Based Learning (PODBL) in collaboration with industry is a key feature of our engineering degrees, helping you to learn through real-world projects through the duration of your course.

### Learn from leaders in their field

Be inspired, encouraged and supported through every stage of your studies. Our academic staff are experienced industry professionals who are enthusiastic about sharing their skills and knowledge and offering you valuable industry insights.

### Travel overseas

Get a head start in your career while gaining credit towards your degree with a work integrated learning experience. You could take up an internship to add to your portfolio while gaining valuable industry contacts and experience. For example, design students (3D animation, digital technologies and visual communication) have the opportunity to travel to Asia for a team internship and explore unique cultures and emerging creative practices.

You can also see the world with an international study tour, volunteer placement or exchange at one of Deakin's partner universities, in more than 40 countries.



# Disciplines

Your dream course starts here. Take a look through our disciplines (also known as study areas) to choose your area of expertise. Knowing which discipline you're interested in helps career advisers find the best course for your interests. Corresponding courses are featured in the following pages, so you can learn more about what you'll study, work experience opportunities and the types of careers you could pursue. When you choose a course, you can then pick which discipline to specialise in within that course. Visit **deakin.edu.au** for detailed discipline and course information, including a description of the units within each degree.

### 3D animation design

Prepare for a multidisciplinary design career as you discover how motion design can be used as an engaging communication platform and a method for transformative social change. You'll explore a variety of platforms including augmented reality and virtual reality, film, television, advertising, web, motion capture, motion graphics and game design.

### Architecture

Explore the design of our physical environments, from residential and cultural through to commercial and industrial. Architecture at Deakin integrates multiple creative and technical fields, as well as skill sets that examine and shape the places we inhabit, through all building types, spaces and locations. From day one you'll be engaged by 'doing' – building models, studying professional architects' projects, producing drawings and learning about digital design.

### **Civil engineering**

Learn to inspire the design, construction and management of our cities and maintain the built infrastructure systems that are necessary for our day-to-day lives. Become a design-driven, innovative and entrepreneurial engineer with skills to succeed globally in a rapidly-changing, ever-evolving industry.

### Creative technologies

Use your creative and technical skills to explore interactive media design, game design, robotics systems and creative technologies production. Enhance your ability to design and build the innovative computing products that will help meet 21st century needs.

### Digital technologies design

Digital technologies have become an integral part of our everyday lives. Combine strong foundations in design thinking and strategies with the technical skills required to delve into software design, user interface design and design for augmented and virtual realities.

## Electrical and electronics engineering

Study renewable electrical power generation, smart distribution and power usage, and the role of energy production in climate change. With such a cross-range of knowledge, you'll be a highly employable graduate capable of taking on diverse roles.

### Mechanical engineering

Get qualified to design and develop the complex mechanical systems, devices and machines of the future. Deakin's mechanical engineering degree brings together leading computer-aided engineering technologies with advanced materials and manufacturing knowledge, to ensure you'll be in global demand for your set of skills. You'll also be well prepared to transition into a variety of engineering roles, from automotive manufacturing and robotics design, to engineering spacecrafts fit for deep space.



### Mechatronics engineering

Robots won't be the only thing you build when you study mechatronics with us. Learn how to integrate electronic devices with mechanical design and IT to deliver innovative solutions to diverse real-world problems, like the automation of industrial processes using robotics and other cutting-edge technologies, self-driving cars and even artificial hearts.

### Visual communication design

Learn the tools, strategies and design thinking methodologies needed to be an adaptable, multidisciplinary communication designer. Shape your ideas into practical and attractive propositions for users, customers and society as a whole.

### Bachelor of Design (3D Animation) A343 B 3 T1, T2, T3<sup>1</sup>

Deakin's Bachelor of Design (3D Animation) embeds animation into design, focusing on the requirements of the client, delivering projects to suit industry standards across digital platforms. Explore design histories and theories and develop creative, technical and analytical skills in animation production through the exploration of computer graphic animation (3D CG modelling, character design and rigging, CG lighting and rendering) and motion capture techniques.

### Professional recognition

Deakin's Bachelor of Design (3D Animation) is recognised by the Design Institute of Australia (DIA), so you'll be up-to-date with the current industry practices and developments. The DIA also offers student membership and access to some of the biggest design events and experts in the nation.

### Careers

As a graduate, you'll be a well-equipped multidisciplinary designer ready to work in motion design, animation, film, television, web design, augmented reality (AR) and virtual reality (VR). Roles include:

- 2D or 3D animator
- augmented realities designer
- arts editor
- cartoonist
- digital designer
- game developer
- illustrator
- modeller
- motion capture technician
- motion graphics designer
- multimedia developer
- VR designer.

### Course structure<sup>2,3,4</sup>

This 24-credit-point course consists of 10 common core units, three 3D Animation core units, four 3D Animation course electives and six open elective units.

Deakin code S342

Trimester

Course duration in years 3

Cloud Campus

Melbourne Burwood Campus

Geelong Waterfront Campus

Geelong Waurn Ponds Campus Warrnambool Campus WB

	Trimester 1	Trimester 2
Year 1	Design Thinking Design Skills and Technologies 1 Designing 3D Environments Course elective from List A <sup>5</sup>	Design Laboratory Design Skills and Technologies 2 Designing 3D Motion Course elective from List A <sup>5</sup>
Year 2	Designing User Experience Course elective from List B <sup>6</sup> Elective x 2	Professional Practice in Design Interactive Animation Design Studio Design Strategies Course elective from List B <sup>6</sup>
Year 3	Individual Design Portfolio Design to Change the World Elective x 2	Collaborative Design Project (2 credit points) Elective x 2

#### deakin.edu.au/course/bachelor-design-3d-animation

- 1 Students who are applying to commence in Trimester 3 under a pathway agreement and/or with Recognition of
- Prior Learning may not reduce course duration. Students should seek advice before applying for this intake 2 This course structure should be used as a guide only and advice should be sought when selecting units.
- Academic Integrity (AAI018) is a compulsory 0-credit-point unit that you must undertake as part of this course.
- 4 Students must visit the current handbook to access a comprehensive list of course rules.
- Total of two level 1 3D Animation course electives (from a pool of six).
- 6 Total of two level 2 3D Animation course electives (from a pool of four).





### Bachelor of Design (Digital Technologies) A344 B 3 T1, T2, T3

Creative problem-solvers with a love of design and an aptitude for technical IT skills should explore our Bachelor of Design (Digital Technologies). Learn about User Experience (UX), design strategies, digital technologies and interactive media, to deliver impactful digital solutions for creative and social issues in our changing world.

### Professional recognition

Deakin's Bachelor of Design (Digital Technologies) is recognised by the Design Institute of Australia (DIA), so you'll be up-to-date with the current industry practices and developments. The DIA also offers student membership and access to some of the biggest design events and experts in the nation.

Course structure<sup>1,2,3</sup>

### Trimes

1	Design T
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Year 2

Year

Year 3 Individua Design to Elective

### deakin.edu.au/course/bachelor-design-digital-technologies

Connect with industry as you work on

professional client projects using the

latest technologies.

This course structure should be used as a guide only and advice should be sought when selecting units. 2 Academic Integrity (AAI018) is a compulsory 0-credit-point unit that you must undertake as part of this course. Students must visit the current handbook to access a comprehensive list of course rules

Industry links

Design degrees at Deakin are informed by industry leaders across the world. We're active members of the Design Institute of Australia (DIA) and the International Council of Design (Ico-D) and support the Australian Graphic Design Association (AGDA).

Design











'Deakin's staff are what make the university as a whole so special, memorable and impactful. Not only did I create meaningful relationships with the staff, but they helped and still do help connect me to the industry.

### Caleb Lun

Bachelor of Design (Visual Communication) graduate

### Careers

Graduates are open to many career opportunities, in creative agencies, advertising and design studios and corporate companies, taking up roles as:

- design engineers
- digital designers
- digital media designers
- graphic designers
- industrial designers
- User Interface (UI) designers
- virtual reality experience designers
- web designers.



This 24-credit-point course consists of 15 core units, two course elective units and six open electives.

Trimester 1	Trimester 2
Design Thinking	Design Laboratory
Design Skills and Technologies 1	Design Skills and Technologies 2
Exploring I.T.	Introduction to Responsive Web Apps
Course elective from List A	Course elective from List A
Designing User Experience Elective x 3	Professional Practice in Design Design Strategies Digital Technologies Design Studio Authoring of Interactive Media
Individual Design Portfolio	Collaborative Design Project (2 credit points)
Design to Change the World	Enterprise, Entrepreneurship and innovation
Elective x 2	Elective x 1

### Bachelor of Design (Visual Communication) A345 B WF 3 T1, T2, T3<sup>1</sup>

Get introduced to the professional design world through Deakin's Bachelor of Design (Visual Communication). Learn the tools, strategies and design thinking methodologies required to be an adaptive, multidisciplinary communications designer. From day one you'll learn to shape your ideas into smart and appealing concepts for users, customers and society as a whole, under the guidance of industry leaders and established designers.

#### Careers

Graduates are open to many career opportunities, including in the areas of advertising, graphic design studios, print houses, publishers, corporate companies, government and private practices. Potential careers include:

- communications designer
- art director/creative director
- animation and motion designer
- web designer
- graphic designer
- interactive designer
- illustrator
- packaging (FMCG) designer.

#### Professional recognition

Deakin's Bachelor of Design (Visual Communication) is recognised by the Design Institute of Australia (DIA), so you'll be up-to-date with the current industry practices and developments. The DIA also offers student membership and access to some of the biggest design events and experts in the nation. Course structure<sup>2,3</sup>

This 24-credit-point course consists of 10 common core units; two level 1 visual communication units, two level 1 visual communication course electives, three level 2 visual communication units and six open elective units.

Deakin code S342

Trimester

Course duration in years 3

	Trimester 1	Trimester 2
Year 1	Design Thinking Design Skills and Technologies 1 Course elective from List A <sup>4</sup> Elective	Design Laboratory Design Skills and Technologies 2 Typography and Publication Design Drawing and Illustration
Year 2	Designing User Experience Web Design and Interactivity Branding Design Elective	Professional Practice in Design Visual Communication Design Studio Design Strategies Course elective from List A <sup>4</sup>
Year 3	Individual Design Portfolio Design to Change the World Elective x 2	Collaborative Design Project (2 credit points) Elective x 2

#### deakin.edu.au/course/bachelor-design-visual-communication

- 1 Melbourne Burwood Campus only.
- 2 This course structure should be used as a guide only and advice should be sought when selecting units.
- Academic Integrity (AAI018) is a compulsory 0-credit-point unit that you must undertake as part of this course
- 4 Total of two level 1 Visual Communication course electives (from a pool of six).



### Work with real clients on a collaborative exhibition

Final-year design students experience the industry before they graduate. Coming together in a collaborative cross-discipline project, working with non-profit clients, they deliver on real briefs and, in some cases, assist with brand development, culminating in a final exhibition of work.

Cloud Campus Melbourne Burwood Campus Geelong Waterfront Campus Geelong Waurn Ponds Campus Warrnambool Campus WB

### Bachelor of Design (Architecture) S342 WF 3 T1, T2

Understand the built environment, ecosystem and community to create meaningful and sustainable designs for everything from houses to skyscrapers - anywhere in the world.

With an eye for detail and a love of drawing, you'll harness creativity with urban planning to make an impact with your designs.

A folio is not required as part of our admissions process for the Bachelor of Design (Architecture).

#### Professional recognition

When followed by successful completion of an accredited Master of Architecture, the Bachelor of Design (Architecture) is accredited within Australia by the:

- Architects Registration Board of Victoria (ARBV)
- Australia (AACA).

recognised by the Board of Architects Malaysia (Lembaga Arkitek Malaysia), and included on their 'List of Recognised Architectural Programmes'.

### Careers

Deakin architecture graduates work across the

- · architectural consultant or designer
- building project manager
- design coordinator
- · quantity surveyor

Master of Architecture and have gained your registration to practise, you can pursue a career as a practising architect and work in private architectural practices, government organisations, property development, or other building and design fields.

#### Work experience

You can apply to undertake a discipline-specific industry placement as an elective option of

### deakin.edu.au/course/bachelor-design-architecture

you must undertake as part of this course.

• Australian Institute of Architects (AIA)

- Architects Accreditation Council of

This course has also been validated and

globe, from the UK, Berlin and Oslo to China, Dubai and the US. Our graduates have pursued the following roles:

### • 3D architectural modeller

- building designer

- structural drafter.

Once you've completed further studies in a

deakin.edu.au/sebe/wil

your course.





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

Year 1

Year 2

Year 3



workshop with 3D printers, laser cutters, CNC routers and traditional tools and machinery to

This 24-credit-point course consists of 19 core units (22 credit points) and two elective units.

Trimester 1	Trimester 2
Art and Society Architecture Communication 01: Drawing Architecture Design Studio 01: Thoughtscapes Building Materials Science	Architecture Communication 02: Modelling Architecture Design Studio 02: Matterscapes (2 credit points) Construction and Structures 1
Utopian Ideals in the Modern World Architecture Design Studio 03: Earthscapes Construction and Structures 2 Elective	Austral-Asian Architecture Architecture Design Studio 04: Publicscapes (2 credit points) Building Environmental Studies
Architecture Communication 03: Documentation Architecture Design Studio 05: Hybridscapes Building Environmental Services Contemporary Architecture	Architecture Design Studio 06: Superstudio (2 credit points) Construction and Structures 3 Elective

1 This course structure should be used as a guide only and advice should be sought when selecting units. 2 Academic Integrity (STP050) and Safety Induction Program (SRA010) are compulsory 0-credit-point units that

### Combined course

### Bachelor of Design (Architecture)/Bachelor of Construction Management (Honours) D364 WF 51 TI, T2

Gain knowledge, skills and practical experience in architecture, design and construction in this unique combined course that explores smart, sustainable design.

Learn to design striking buildings that are economically and environmentally viable and manage projects, no matter what their scale or size.

### Professional recognition

The construction management stream of this combined course is professionally accredited by industry.

Graduates qualify for membership of:

- Australian Institute of Building (AIB)
- Australian Institute of Quantity
  Surveyors (AIQS)
- Chartered Institute of Building (CIOB)
- Royal Institution of Chartered Surveyors (RICS).

The architecture stream is recognised in Australia by the following organisations, provided graduates go on to complete an accredited Master of Architecture course they will have an accredited academic qualification and on their way to becoming a registered architect:

- Australian Institute of Architects (AIA)
- Architects Registration Board of Victoria (ARBV)
- Architects Accreditation Council of Australia (AACA).

### Careers

This cross-discipline course gives you more options for your future career. Career opportunities include:

- 3D architectural modeller
- architectural consultant or designer
- building designer
- building project manager
- construction manager
- draftsperson
- estimator
- quantity surveyor.

Upon graduating, if you would like to pursue a career as a practising architect, you will need to complete an accredited Master of Architecture course. This enables you to apply for your registration to practise and work in private architectural practices, government organisations, property development, or building and design fields.

### Course structure<sup>2,3</sup>

This 40-credit-point course consists of 36 core units (totalling 39 credit points) and one elective unit.

	Trimester 1	Trimester 2
Year 1	Building Materials Science Art and Society Architecture Design Studio 01: Thoughtscapes Architecture Communication 01: Drawing	Construction and Structures 1 Architecture Communication 02: Modelling Architecture Design Studio 02: Matterscapes (2 credit points)
Year 2	Construction and Structures 2 Utopian Ideals in the Modern World Construction Finance Building Safety	Building Environmental Studies Construction Projects 2 Building Economics Elective
Year 3	Architecture Design Studio 03: Earthscapes Building Measurement Contract Administration 1 Project Management 1	Construction and Structures 3 Building Cost Planning Architecture Design Studio 04: Publicscapes (2 credit points)
Year 4	Architecture Communication 03: Documentation Building Measurement and Estimating Contemporary Architecture Project Management 2	Contract Administration 2 Quantity Surveying Practice Project Planning and Scheduling Project Management 3
Year 5	Building Environmental Services Architecture Design Studio 05: Hybridscapes Contract Administration 3 Professional Practice	Architecture Design Studio 06: Superstudio (2 credit points) Built Environment Integrated Research Building Development Appraisal

### deakin.edu.au/course/design-architecture-construction-mgmt-hon

1 Students have the opportunity to complete this course in four years of full-time study by undertaking units in Trimester 3.

This course structure should be used as a guide only and advice should be sought when selecting units.
 Academic Integrity (STP050) and Safety Induction Program (SRA010) are compulsory 0-credit-point units that you must undertake as part of this course.

### Get to Geelong easily

If you're based in Melbourne, the commute to the Geelong Waterfront Campus is quick and easy. From Docklands, a daily ferry takes 90 minutes, or by the regional rail link from Southern Cross station, you'll be there in under an hour. If you're driving from Melbourne's west, you might find your commute's as short as 40 minutes.

Find out more about our locations at **deakin.edu.au/locations** and our accommodation options by visiting **deakin.edu.au/ life-at-deakin/accommodation**.

### A pathway to success

Deakin architecture student, Sharyn Blakemore's (pictured right) pathway to university was quite unique. After graduating from high school, she completed an Advanced Diploma of Building Design, and then worked in industry before starting her course part time. Now in her third year of Deakin's Bachelor of Design (Architecture), she's won a coveted industry award, thanks to her passion for building services engineering.

### What industry experience did you have before university?

'I've worked as a building designer for the past seven years, and architecture was always the capstone of the career path I wanted to take. My path may not have been the most straightforward, but learning and working within the industry to confirm this was my true passion, before taking this next step, was right for me.'

### What was it about building services engineering that captured your attention?

'Building Services Engineering was part of my course, and I really connected with it. The idea of designing a space, a home or a building that is comfortable, thermally efficient and meets the needs of its occupants is very appealing to me. Incorporating safe, efficient and healthy environments into the design should be a priority for all designers, architects and engineers.'

The student experience Hear what students have to say about studying architecture and construction management by visiting deakin.yt/study-abe.



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

Deakin code 5342 Course duration in years 3 Trimester T



You won the Chartered Institution of Building Services Engineers (CIBSE) Mark Griffin Award – Student of the Year for your video submission, addressing why you consider building services engineering to be an art form. Tell us a bit about the Core 9 project, which featured in your video.

'The Core 9 project started as a design collaboration between myself and two work colleagues to produce a highly energy-efficient and sustainable design that was affordable and comparable to the Australian housing market.

The Core acronym stands for Carbon Positive, Zero Waste, Recycled and Economics. My involvement included design development of the house and conducting thermal performance assessments to reach its optimal energy rating of nine stars.'

'Being the only degree of its kind in Australia attracted me to choosing this course. It will open up so many possibilities post study to progress my career.'

### Benjamin McKenzie

Bachelor of Design (Architecture)/ Bachelor of Construction Management (Honours) student

### Bachelor of Civil Engineering (Honours) 5460 C<sup>1</sup> B<sup>2</sup> WP 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.



### 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
Year 1	Design Fundamentals (2 credit points) Applied Algebra and Statistics Engineering Physics	Materials Engineeri (2 credit points) Introduction to Ma Programming for Er
Year 2	Geotechnical Investigation and Design (2 credit points) Engineering Modelling Fluid Mechanics	Structural Design (2 Construction Engine Road and Pavemen
Year 3	Water Engineering Design (2 credit points) Theory of Structures Hydrology and Hydraulics	Reinforced Concret Geotechnical Engin Steel and Timber St
Year 4	Engineering Project A (2 credit points) Traffic and Transport Engineering Elective	Engineering Project Infrastructure Engin Professional Engine

deakin.edu.au/course/bachelor-civil-engineering-honours

Cloud Campus students are required to participate in campus-based intensive activities each trimester at the Geelong Waurn 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 Waurn Ponds Campus or Cloud Campus.

3 Trimester 2 intake is only available at the Geelong Waurn Ponds Campus and Cloud Campus. This course structure should be used as a guide only and advice should be sought when selecting units.

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.

### Gain a scholarship to help 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

### 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





'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

ring Project

athematical Modelling Engineers

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nt Engineering

ete Design (2 credit points)

neering Structures

ect B (2 credit points) ineering eering Practice

### Bachelor of Electrical and Electronics Engineering (Honours) 5461 C<sup>1</sup> B<sup>2</sup> WP 4 T1, T2<sup>3</sup>

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
- computer 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.

### 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.

course either at the Geelong Waurn Ponds Campus or Cloud Campus.

3 Trimester 2 intake only available at the Geelong Waurn Ponds Campus and Cloud Campus. 4 This course structure should be used as a guide only and advice should be sought when selecting units.

### 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 women studying the Bachelor of Electrical and Electronics Engineering (Honours), Bachelor of Mechatronics Engineering (Honours) or Bachelor of Environmental Engineering (Honours) - with successful applicants receiving a cash payment of up to \$10,000 per year for the normal duration of their course.

deakin.edu.au/ausnet-services-women-in-powerengineering-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
Year 1	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
Year 2	Power Engineering Design (2 credit points) Engineering Modelling Analogue and Digital Electronics	Distributed Generation System Embedded System Design (2 credit points) Power Electronics
Year 3	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
Year 4	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



1 Cloud Campus students are required to participate in campus-based intensive activities each trimester at the Geelong Waurn 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

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

### Bachelor of Mechanical Engineering (Honours) S462 C<sup>1</sup> B<sup>2</sup> WP 4 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 will 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.

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.

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

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



must undertake as part of this course

Deakin code S342 Course duration in years 3 Trimester

Cloud Campus Melbourne Burwood Campus Geelong Waterfront Campus Geelong Waurn Ponds Campus Warrnambool Campus WB



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

### 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.



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

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 4 TI, 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, 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 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.



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

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

Deakin code S342

Trimester

Course duration in years 3

Cloud Campus C

Melbourne Burwood Campus

Geelong Waterfront Campus

Geelong Waurn Ponds Campus WP Warrnambool Campus WB

	Trimester 1	Trimester 2
Year 1	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
Year 2	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
Year 3	Mechatronic Design (2 credit points) Artificial Intelligence for Autonomous Systems Data Communication	Electromechanical Systems Design (2 credit points) Control Systems Dynamics of Machines
Year 4	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

- 1 Cloud Campus students are required to participate in campus-based intensive activities each trimester at the Geelong Waurn 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 Waurn Ponds Campus
- or Cloud Campus. 3 Trimester 2 intake only available at the Geelong Waurn Ponds Campus and Cloud Campus.
- 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.



### Course and entry requirements

### Bachelor of Design (3D Animation)<sup>2</sup> | A343

 Y12
 3.4 VCE units 3 and 4 – a study score of at least 20 in English other than EAL or 25 in English other than EAL or 25 in English other than GAL or 25 in English other than G

### Bachelor of Design (Digital Technologies)<sup>2</sup> | A344

V12  $^{3,4}$  VCE units 3 and 4 – a study score of at least 20 in English other than EAL or 25 in English other than EAL or 25

[NY12]<sup>4,5</sup> As for Year 12 or equivalent, for further information refer to deakin.edu.au/course/

### Bachelor of Design (Visual Communication)<sup>2</sup> | A345

 Y12
 <sup>3,4</sup> VCE units 3 and 4 – a study score of at least 20 in English other than EAL or 25 in English other than

### Bachelor of Design (Architecture)<sup>7</sup> | S342

 $\boxed{\mbox{Y12}}^{3,4}$  VCE units 3 and 4 – a study score of at least 25 in English (EAL) or at least 20 in English other than EAL.

[NY12]<sup>4,5</sup> As for Year 12 or equivalent, for further information refer to deakin.edu.au/course/

### Bachelor of Design (Architecture)/Bachelor of Construction Manager (Honours)<sup>8</sup> | D364

 $\boxed{\mbox{Y12}}^{3,4}$  VCE units 3 and 4 – a study score of at least 25 in English (EAL) or at least 20 in English other than EAL.

leakin.edu.au/course,

### Bachelor of Civil Engineering (Honours) | \$460

 $\boxed{12}^{3,4}$  VCE units 3 and 4 – a study score of at least 25 in English (EAL) or at least 20 in English than EAL; and a study score of at least 20 in one of Maths: Mathematical Methods (any) or N Specialist Mathematics.

NY12 4,5 As for Year 12 or equivalent, for further information refer to deakin.edu.au/course/

14 Design

## Study when and where you want

Join the thousands of students currently studying online at Deakin's Cloud Campus. You'll learn with the same top teachers as on-campus students, with the ultimate flexibility to study anywhere, anytime.

	Campus and ATAR	Course duration		Fee <sup>1</sup>
glish (EAL) :/A343	B 55.50 and RC	3	T1, T2, T3	\$6890
glish (EAL) /A334	■ 50.15 and RC	3	T1, T2, T3	\$7395
glish (EAL) /A345	■ 56.05 and RC ₩F 56.30 and RC	3	T1, T2, T3 <sup>6</sup>	\$6882
ish /S342	<b>WF</b> 70.35	3	T1, T2	\$9505
<mark>ment</mark> ish /D364	<b>WF</b> 79.75	5 <sup>9</sup>	T1, T2	\$9514
ish other Maths: /S460	C <sup>10</sup> NP B <sup>11</sup> 70.10 WP 64.05	4	T1, T2	\$9527
			Cla Malhauraa Buruu	ud Campus

C	Cloud Campus
в	Melbourne Burwood Campus
WF	Geelong Waterfront Campus
WP	Geelong Waurn Ponds Campus
WB	Warrnambool Campus

Recent secondary education Y12 Non-Year 12 NY12

Course and entry requirements	Campus and ATAR	Course duration	Trimester intakes	Fee <sup>1</sup>	
<b>Bachelor of Electrical and Electronics Engineering (Honours)   S461</b> Y12] <sup>3,4</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. NY12] <sup>4,5</sup> As for Year 12 or equivalent, for further information refer to deakin.edu.au/course/S461	C <sup>10</sup> NP B <sup>11</sup> 75.10 WP 69.00	4	T1, T2	\$9527	
Bachelor of Mechanical Engineering (Honours)   S462 Y12 <sup>3,4</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. NY12 <sup>14,5</sup> As for Year 12 or equivalent, for further information refer to deakin.edu.au/course/S462	[] <sup>10</sup> NP [] <sup>11</sup> 71.80 [₩₽] 67.75	4	T1, T2	\$9520	
Bachelor of Mechatronics Engineering (Honours)   S463 [Y12] <sup>3,4</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. [NY12] <sup>4,5</sup> As for Year 12 or equivalent, for further information refer to deakin.edu.au/course/S463	© <sup>10</sup> NP ₿ <sup>11</sup> 71.75 ₩₽ 67.40	4	T1, T2	\$9527	
1       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       5       There are four categories under which non-Year 12 applicants may apply to Deakin: – applicants with higher education study					

- study, or 8 credit points, unless otherwise indicated. This fee should be used as a guide only and is subject to change. 2 To be eligible for entry into this course, applicants must present a portfolio of work to
- a satisfactory standard. 3 Recent secondary education applicants include current Year 12 students in 2020,
- as well as Year 12 graduates from 2019 and 2018. 4 International student entry requirements can be found at: deakin.edu.au/
- international-students.

- 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 and head to the course of interest to find out further details on admission requirements.
- 6 Melbourne Burwood Campus only.
- 7 Leads to professional recognition when followed by successful completion of the Master of Architecture.
- 8 Leads to professional recognition when followed by successful completion of an approved Master of Architecture program. 9 Students have the opportunity to complete this course in four years of full-time study
- by undertaking units in Trimester 3.
- 10 Cloud Campus students will be required to participate in campus-based intensive activities each trimester at the Geelong Waurn Ponds Campus.
- 11 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 Waurn Ponds Campus or Cloud Campus.
- NP means not published less than five offers made to recent secondary education applicants. RC means admission is based on a range of criteria.

### #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

Design

1 Australian Graduate Recruitment Industry Awards (AGRIA) -2017, 2018 and 2019.

> Cloud Campus Melbourne Burwood Campus Geelong Waterfront Campus Geelong Waurn Ponds Campus Warrnambool Campus

Recent secondary education Y12 Non-Year 12 NY12

Communication

Digital literacy Teamwork

this.

Advice for life.

learning and career

Visit **this.deakin.edu.au** to help you reach your potential in Year 12 and beyond. Hear from academic experts, industry professionals and inspirational students.

> Critical thinking

Problem solving

## 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

International students +61 3 9627 4877 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.

### Social media at Deakin

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### Other useful websites

vtac.edu.au studyassist.gov.au myfuture.edu.au youth.gov.au youthcentral.vic.gov.au

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, including how Hallmarks are awarded.







Creativity





Self management

Global citizenship

innovatior

Digital Entrepreneurial Leadership innovation thinking