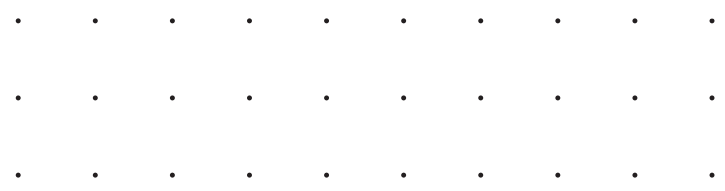




Engineering study guide


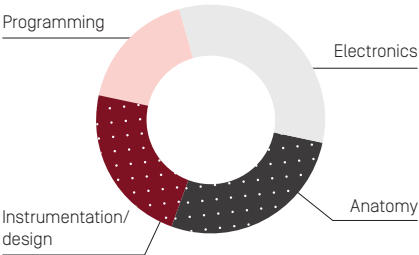

Course options and career opportunities

swinburne.edu.au/engineering



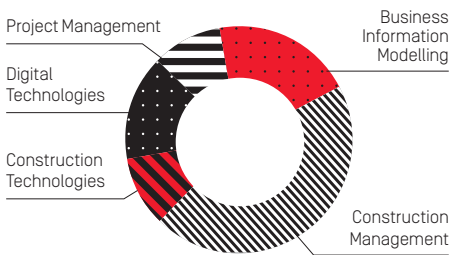

Innovate solutions for tomorrow's problems.

Engineering underpins the spaces we live in and the tools we use daily. Gain the skills to shape solutions in a range of disciplines with accredited courses taught in state-of-the-art labs. Get real-world experience through industry projects and graduate ready to step into your next-gen engineering career.

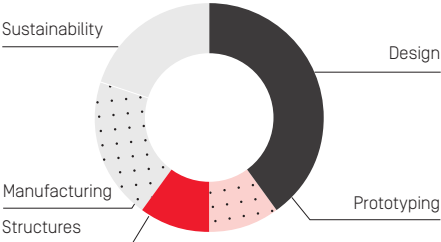
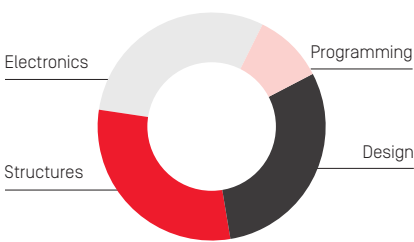
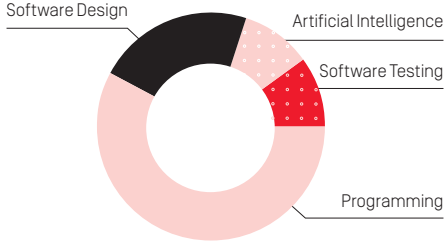
<p>I want to learn</p> <p>How to design beautiful and liveable buildings</p>	<p>I want to learn</p> <p>How to create devices to improve people's health</p>	<p>I want to learn</p> <p>About designing, building and maintaining infrastructure</p>
<p>Study</p> <p>Architectural</p> <p>With a degree</p> <p>Bachelor of Engineering (Honours) with a major in architectural</p> <p><i>Pathway to a degree:</i></p> <p>Diploma of Engineering (UniLink)</p> <p>Advanced Diploma of Engineering Technology – Electrical (UEE62122)</p>	<p>Study</p> <p>Biomedical</p> <p>With a degree</p> <p>Bachelor of Engineering (Honours) with a major in biomedical</p> <p><i>Pathway to a degree:</i></p> <p>Diploma of Engineering (UniLink)</p> <p>Advanced Diploma of Engineering Technology – Electrical UEE62122</p>	<p>Study</p> <p>Civil</p> <p>With a degree</p> <p>Bachelor of Engineering (Honours) with a major in civil</p> <p><i>Pathway to a degree:</i></p> <p>Diploma of Engineering (UniLink)</p> <p>Advanced Diploma of Engineering Technology – Electrical (UEE62122)</p> <p>Associate Degree of Engineering</p>
<p>To learn about</p> 	<p>To learn about</p> 	<p>To learn about</p> 
<p>To become</p> <ul style="list-style-type: none"> Architectural engineer Design engineer Project engineer Structural system engineer 	<p>To become</p> <ul style="list-style-type: none"> Biomedical engineer Clinical engineer Medical device designer Medical electronics engineer 	<p>To become</p> <ul style="list-style-type: none"> Civil engineer Civil design engineer Structural engineer Environmental engineer
<p>Postgraduate studies</p> <ul style="list-style-type: none"> Master of Architecture Master of Architecture and Urban Design Master of Design 	<p>Postgraduate studies</p> <ul style="list-style-type: none"> Master of Engineering Practice Master of Professional Engineering 	<p>Postgraduate studies</p> <ul style="list-style-type: none"> Master of Engineering Practice Master of Professional Engineering

Please note, more pathway options may be available than those outlined in this guide. Please speak to your Swinburne representative for details.



<p>I want to learn</p> <p>How to develop infrastructure with a digital-first approach</p>	<p>I want to learn</p> <p>About circuits and power generation</p>	<p>I want to learn</p> <p>How things work and how to make them better</p>
<p>Study</p> <p>Construction management</p> <p>With a degree</p> <p>Bachelor of Construction Management (Honours)</p> <p><i>Pathway to a degree:</i> This degree is currently offered by direct entry only.</p>	<p>Study</p> <p>Electrical and electronic</p> <p>With a degree</p> <p>Bachelor of Engineering (Honours) with a major in electrical and electronic</p> <p><i>Pathway to a degree:</i> Diploma of Engineering (UniLink) Advanced Diploma of Engineering Technology – Electrical UEE62122 Associate Degree of Engineering</p>	<p>Study</p> <p>Mechanical</p> <p>With a degree</p> <p>Bachelor of Engineering (Honours) with a major in mechanical</p> <p><i>Pathway to a degree:</i> Diploma of Engineering (UniLink) Advanced Diploma of Engineering Technology – Electrical (UEE62122) Associate Degree of Engineering</p>
<p>To learn about</p> 	<p>To learn about</p> 	<p>To learn about</p> 
<p>To become</p> <ul style="list-style-type: none"> • Building Information Modelling (BIM) specialist • Construction manager • Quantity surveyor • Site supervisor 	<p>To become</p> <ul style="list-style-type: none"> • Communications engineer • Design engineer • Electrical engineer • Power engineer 	<p>To become</p> <ul style="list-style-type: none"> • Design engineer • Engineer project manager • Mechanical engineer • Project and technology engineer
<p>Postgraduate studies</p> <p>This degree does not currently have official postgraduate pathways. Please explore Swinburne's website for a range of postgraduate course options or speak to your Swinburne representative.</p>	<p>Postgraduate studies</p> <ul style="list-style-type: none"> • Master of Engineering Practice • Master of Professional Engineering 	<p>Postgraduate studies</p> <ul style="list-style-type: none"> • Master of Engineering Practice • Master of Professional Engineering



<p>I want to learn</p> <p>How to use technology to design innovative products</p>	<p>I want to learn</p> <p>How to improve everyday life through automation</p>	<p>I want to learn</p> <p>How to build hardware and program software to solve problems</p>
<p>Study</p> <p>Product design</p> <p>With a degree</p> <p>Bachelor of Engineering (Honours) with a major in product design</p> <p><i>Pathway to a degree:</i> Diploma of Engineering (UniLink) Advanced Diploma of Engineering Technology – Electrical UEE62122</p>	<p>Study</p> <p>Robotics and mechatronics</p> <p>With a degree</p> <p>Bachelor of Engineering (Honours) with a major in robotics and mechatronics</p> <p><i>Pathway to a degree:</i> Diploma of Engineering (UniLink) Advanced Diploma of Engineering Technology – Electrical UEE62122 Associate Degree of Engineering</p>	<p>Study</p> <p>Software</p> <p>With a degree</p> <p>Bachelor of Engineering (Honours) with a major in software</p> <p><i>Pathway to a degree:</i> Diploma of Engineering (UniLink) Advanced Diploma of Engineering Technology – Electrical UEE62122</p>
<p>To learn about</p> 	<p>To learn about</p> 	<p>To learn about</p> 
<p>To become</p> <ul style="list-style-type: none"> • Design consultant • Entrepreneur • Industrial designer • Product design engineer 	<p>To become</p> <ul style="list-style-type: none"> • Control system engineer • Factory automation adviser • Robotics developer • Robotics and mechatronics engineer 	<p>To become</p> <ul style="list-style-type: none"> • Project and technology manager • Software engineer • Software systems developer • Software modeller
<p>Postgraduate studies</p> <ul style="list-style-type: none"> • Master of Design • Master of Engineering Practice • Master of Professional Engineering 	<p>Postgraduate studies</p> <ul style="list-style-type: none"> • Master of Engineering Practice • Master of Professional Engineering 	<p>Postgraduate studies</p> <ul style="list-style-type: none"> • Master of Engineering Practice • Master of Professional Engineering

Why study engineering with us?

#1
IN AUSTRALIA

#13
IN THE WORLD




for automation and control
2024 ARWU Global Ranking of Academic Subjects

AN INDUSTRY PROJECT
EVERY SEMESTER



Gain industry contacts and learn in-demand skills through real-world projects

TOP 150
GLOBALLY



for civil engineering, and electrical and electronic engineering
2024 ARWU Global Ranking of Academic Subjects

A\$100 MILLION



Advanced Manufacturing and Design Centre
A state-of-the-art hub for students, researchers and industry to collaborate on next gen product development

- -
 -
 -
 -
- -
 -
 -
 -
- -
 -
 -
 -



Trimble TECHNOLOGY LAB

at Swinburne University of Technology

Design & Analysis
Civil Engineering
Project Collaboration
Trimble Construction Field
Students Hands-on
Local support

Australia-first digital engineering lab

Trimble technology chose Swinburne for their only Australian lab, where our engineering students learn to confidently handle some of the finest technical equipment in industry.



Pathways to a degree

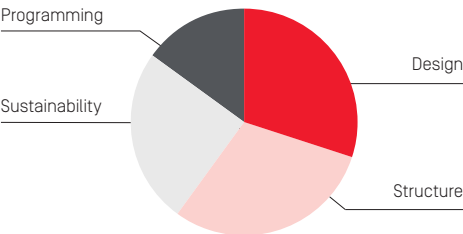
Not sure if jumping straight into a degree is for you? Find a pathway that suits your circumstances and lifestyle.

UniLink diplomas

UniLink diplomas are equivalent to eight units of study (typically one year of full-time study) and provide an alternative pathway to a wide range of bachelor degrees. They are designed for students who miss direct entry to a degree or who would benefit from a more supportive learning environment, with smaller class sizes and more one-on-one time with teachers. Most UniLink courses can lead to the second year of a related bachelor degree.

For more information visit swinburne.edu.au/nextstep

Diploma of Engineering (Unilink)



Advanced diplomas

At Swinburne, our Advanced Diploma of Engineering Technology offers a strong foundation through hands-on learning and practical skills development. This vocational qualification combines industry-relevant knowledge with real-world experience to help you build your expertise in your chosen field.

Upon successful completion, you may be eligible to progress directly into the Bachelor of Engineering with advanced standing—enabling a smooth transition to university-level studies.

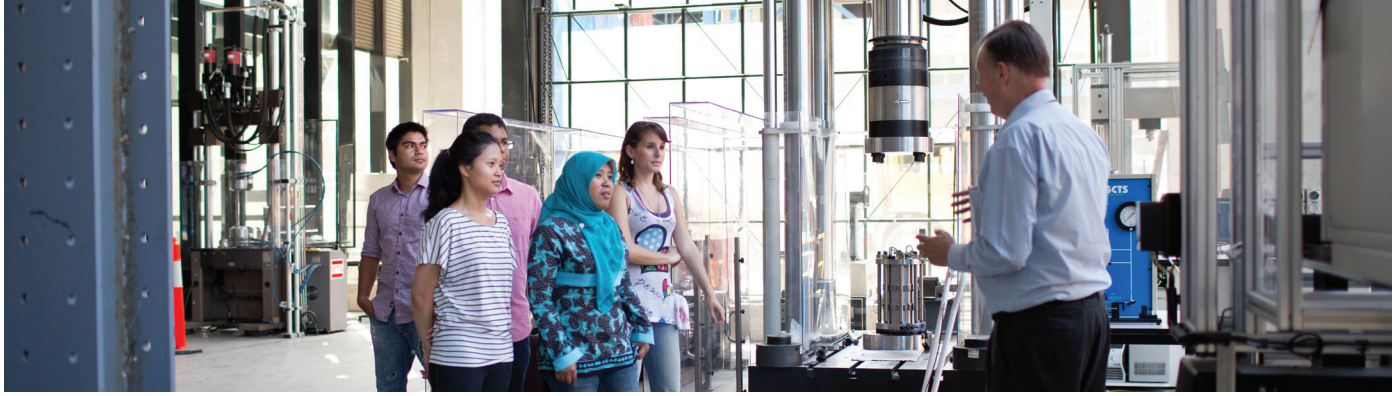
Associate degrees

Our associate degrees are two-year tertiary qualifications that will prepare you for a career as a paraprofessional or highly-skilled worker, or for further study in your field.

Associate degrees focus on preparing you for work with hands-on and practical learning. When you study an associate degree with us, you'll be in a small class, which means you'll get more support from your lecturers and tutors.

Upon successful completion, you can apply for entry into the bachelor version of your course and may be eligible for academic credit, allowing you to fast-track your studies.

- -
 -
 -
 -
- -
 -
 -
 -
- -
 -
 -
 -



Your next gen education at Swinburne

Real industry experience, guaranteed

Every Swinburne bachelor degree student is guaranteed a real industry experience before they graduate. That could be an internship, industry-linked project or full-time placement. It's all part of our Work Integrated Learning (WIL) program – designed to give you the skills, confidence and connections to step straight into industry.

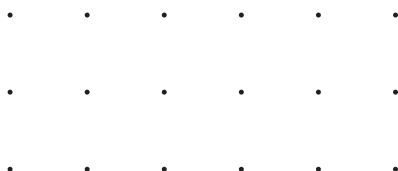
For more information visit swinburne.edu.au/workintegratedlearning

Industry accredited and recognised

Our Bachelor of Engineering (Honours) course is designed to produce graduates who have the technological skills and knowledge expected of professional engineers. Graduates are eligible to apply for graduate membership of Engineers Australia.



ENGINEERS
AUSTRALIA



Professional degrees

More than a standard bachelor degree, a Professional Degree is a premium university experience that includes a 12-month full-time work placement. Some Professional Degrees are open for direct entry to international students. For others, you will need to enrol in a standard degree then transfer to the Professional Degree later.

For more information visit swinburne.edu.au/life-at-swinburne/work-integrated-learning/professional-degrees

Entry requirements

Entry to Swinburne courses mentioned here require successful completion of Australian Year 12 or overseas equivalent. Additional English language and relevant academic requirements also apply.

For more information visit swinburne.edu.au/study/international/apply/entry-requirements

Scholarships

At Swinburne, we are committed to supporting talented international students on their educational journey. Our International Scholarship program rewards academic performance and helps reduce financial barriers to quality education, with scholarships offerings up to 30% tuition fee reduction. When you apply for a course with us, your eligibility for our international scholarships is automatically assessed alongside your course application—no extra application is needed.

For more information visit swinburne.edu.au/study/international/scholarships/

Further information

- 1300 275 794 (within Australia)
- +61 3 9214 8444 (worldwide)
- international@swinburne.edu.au
- swinburne.edu.au/international

- facebook.com/swinburneuniversityoftechnology
- instagram.com/swinburne
- youtube.com/swinburne

The information contained in this study guide was correct at the time of publication, September 2025. The university reserves the right to alter or amend the material contained in this guide. For the most up-to-date course information please visit our website swinburne.edu.au
CRICOS 00111D RTO 3059 TEQSA PRV12148 Australian University SG0001_202508

Please recycle

Email us



Discover
Hawthorn campus

