

ASSOCIATE DEGREES IN ENGINEERING

TAFE SA Associate Degrees are accredited by Engineers Australia and are located at level 6 of the Australian Qualifications Framework*.

A TAFE SA associate degree is a two-year full time Higher Education course. Study at this level to obtain strong grounding and practical experience so you graduate job ready to enter into the workforce immediately as a highly skilled employee, or you can go on to study a Bachelor of Engineering at university using the two years credit you earn from your studies in the associate degree... it's the best of both worlds.

PRACTICAL EXPERIENCE

The associate degree provides you with opportunities to get job ready through:

- > An experiential learning approach, with laboratory practice and project-based activities.
- > Optional industry work experience.
- > Industry visits and professional seminars from those in the know.
- > Guest industry speakers on topics that will complement your studies.

*See TAFE SA website for details.

*Mechanical Engineering in progress.

ASSOCIATE DEGREE COURSES

These associate Degree Courses are accredited by Engineers Australia*. These qualifications are recognised in Australia and some overseas countries.

Graduates of Associate Degree Courses are eligible for migration skills assessment by Engineers Australia. The occupational outcome of this assessment is in the Engineering Associate category. The specific occupation code depends on the program studied and on the Engineers Australia guidelines. See the Engineers Australia website for further details.

An Engineering Diagnostic Test will be conducted during the orientation and induction program to test a student's sufficient and required technical skills for academic success. The results may affect the commencement in the Associate Degree Courses. See the Letter of Offer or TAFE SA course home page for specific details.

Associate Degree Courses have computer equipment requirements as outlined in the offer letter or the TAFE SA course home page. More specific details will be provided after commencement.



UNIVERSITY PACKAGED PRODUCTS

TAFE SA has partnered with South Australian universities to offer packaged programs in Engineering. This allows students to accept a joint packaged offer with the university, with guaranteed entry and significant cost saving.

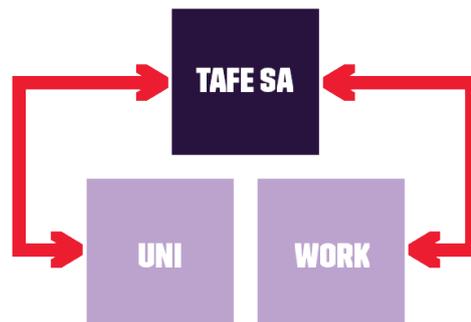
EXAMPLE OF SAVINGS

Maria wants to complete a Bachelor of Engineering (Honours) at university. This will cost her around \$52,300* (AUD) for each year of the four-year degree, or around \$204,000 (AUD) overall.

Maria has chosen to study the Associate Degree in Electronic Engineering (066407J/CRS1400029) at TAFE SA which costs around \$20,135* (AUD) a year or around \$40,270 for the two-year course.

When Maria completes her TAFE SA study, she will gain two years credit to go on to complete her Bachelor degree at university in two years.

By the end of the four years, Maria will have earned two qualifications: an Associate Degree in Electronic Engineering (066407J/CRS1400029) and a Bachelor of Engineering from one of Adelaide's top universities, all while making significant financial savings.



DUAL QUALIFICATION TAFE SA + UNIVERSITY

UNIVERSITY

DUAL QUALIFICATION TAFE SA + UNIVERSITY		UNIVERSITY	
1st year TAFE SA	\$20,135	1st year University	\$52,300
2nd year TAFE SA	\$20,135	2nd year University	\$52,300
3rd year University	\$52,300	3rd year University	\$52,300
4th year University	\$52,300	4th year University	\$52,300
Total (in AUD)	\$144,870*	Total (in AUD)	\$209,200*

*Estimate only, check TAFE SA and University websites for current course costs.

ASSOCIATE DEGREE IN MECHANICAL ENGINEERING

CRICOS CODE 117357K

NATIONAL CODE CRS1401610

Launch your career as a paraprofessional mechanical engineer, gaining the skills to design, install, commission, test, and troubleshoot mechanical systems.

This course is tailored to meet the demands of South Australia's key industries, including manufacturing and defence, and open doors to various sectors such as robotics, production line processing and mining. You'll delve into engineering practice, mathematics, manufacturing, machine dynamics, fluid and thermal systems, project management and mechatronics.

TYPICAL STUDY PROGRAM

FIRST YEAR: Engineering principles, mathematics, manufacturing, machine dynamics, fluid and thermal systems and mechatronics.

SECOND YEAR: Design, Fluid and Thermal Systems, Materials for Engineering, project management and final year engineering project. **Optional industry experience.**

INTAKE: January, July

LOCATION: Regency Park

DURATION: 2 years

2025 Fees: AUD\$40,270 + incidental fees (total duration)

ENTRY

Academic IELTS score of 6.0 overall with a minimum of 5.5 in all bands or equivalent.

Satisfactory completion of Year 12 including: Year 12 Maths; or for other equivalent pathways see the website for more details.

All international students will be required to undertake an Engineering Diagnostic Test during the orientation and induction program at TAFE SA (prior to commencing their course).



CAREER OPPORTUNITIES

Career options include mechanical engineering officer, mechanical drafter or designer, CAD or CAM operator, maintenance technician, building service technician, manufacturing planner or supervisor. Work in areas including maintenance, machine and mechanical design, resource extraction, computer aided design and manufacturing and more.

ASSOCIATE DEGREE IN ELECTRICAL ENGINEERING

CRICOS CODE 092137K NATIONAL CODE CRS1400352

Electrical engineering is driving research and development in the renewable, instrumentation and electrical engineering industries.

The Associate Degree in Electrical Engineering was developed by TAFE SA to respond to the workforce development needs of electrical industries, taking into consideration industry requirements, skillsets and expectations in designing, manufacturing and operating networks, electronic plants and equipment.

TYPICAL STUDY PROGRAM

FIRST YEAR: Engineering practice, including industry standard soldering skills, WHS and sustainability, engineering mathematics and physics, design, construction and test of basic analog and digital circuits, anatomy and physiology, and engineering programming.

SECOND YEAR: Design, construction and test of advanced analog circuits, biomedical instrumentation, project management and final year engineering project. **Optional industry experience.**

INTAKE: January, July
LOCATION: Regency Park
DURATION: 2 years
2025 Fees: AUD\$40,270 + incidental fees (total duration)

ENTRY
Academic IELTS score of 6.0 overall with a minimum of 5.5 in all bands or equivalent.
Satisfactory completion of Year 12 including: Year 12 Maths; or for other equivalent pathways see the website for more details.
All international students will be required to undertake an Engineering Diagnostic Test during the orientation and induction program at TAFE SA (prior to commencing their course).



CAREER OPPORTUNITIES

The employment opportunities for the graduates of this course are in a range of industries, including electricity generation and distribution, production line processing, mining and other industrial and commercial industries. Your work may involve overseeing the condition of electrical equipment, maintain and commissioning electrical equipment or work alongside engineers to design and prototype advanced electrical technology.

ASSOCIATE DEGREE IN ELECTRONIC ENGINEERING

CRICOS CODE 066407J NATIONAL CODE CRS1400029

Electronics and Computer Systems Engineering is responsible for a lot of the modern products we take for granted: car, mobile phone, TV and computer all contain electronics and computer systems.

These systems also power defence systems, process control systems for food and wine production, multimedia systems, wireless to satellite communications, medical equipment, security systems and computer networks throughout society.

TYPICAL STUDY PROGRAM

FIRST YEAR: Engineering practice, including industry standard soldering skills, workplace health and safety and sustainability, engineering mathematics and physics, basic analog and digital circuits, and engineering programming.

SECOND YEAR: Design, construction and test of advanced analog and microcontroller-based circuits, modern communication systems, project management and final year engineering project. **Optional industry experience.**

INTAKE: January, July
LOCATION: Regency Park
DURATION: 2 years
2025 Fees: AUD\$40,270 + incidental fees (total duration)

ENTRY
Academic IELTS score of 6.0 overall with a minimum of 5.5 in all bands or equivalent.
Satisfactory completion of Year 12 including: Year 12 Maths; or for other equivalent pathways see the website for more details.
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CAREER OPPORTUNITIES

Become a technical officer in the electronics industry and related areas like defence, mining, biomedical, and communications. You can work alongside engineers on the design and prototyping of advanced technology, or customising computer-controlled video equipment in a television studio.

ASSOCIATE DEGREE IN BIOMEDICAL ENGINEERING

CRICOS CODE 092136M NATIONAL CODE CRS1400351

The biomedical industry is an integral part of the rapidly growing health care sector. Biomedical engineers drive improvements to health technology – from rehabilitation to medical devices. Like many industries dependent on a specialised and highly trained workforce, biomedical engineering is experiencing a shortage of trained paraprofessional staff. Adelaide's industry is booming with the development of the Royal Adelaide Hospital and the biomedical precinct in the heart of the city.

TYPICAL STUDY PROGRAM

FIRST YEAR: Engineering programming, anatomy and physiology, engineering practice, workplace health and safety and sustainability, engineering mathematics and physics, design, construction and test of basic analog and digital circuits.

SECOND YEAR: Biomedical instrumentation, project management, design, construction and test of advanced analog circuits, and final year engineering project. **Optional industry experience.**

INTAKE: January, July
LOCATION: Regency Park
DURATION: 2 years
2025 Fees: AUD\$40,270 + incidental fees (total duration)

ENTRY
Academic IELTS score of 6.0 overall with a minimum of 5.5 in all bands or equivalent.
Satisfactory completion of Year 12 including: Year 12 Maths; or for other equivalent pathways see the website for more details.
All international students will be required to undertake an Engineering Diagnostic Test during the orientation and induction program at TAFE SA (prior to commencing their course).



CAREER OPPORTUNITIES

As a biomedical paraprofessional you will be installing, commissioning, testing and fault-finding biomedical equipment used in the health system. There are employment opportunities with SA Biomedical Engineering (SA BME), as well as with private companies that offer biomedical engineering services to health institutions. You may also find employment opportunities in electronics and related industries.

ASSOCIATE DEGREE IN CIVIL AND STRUCTURAL ENGINEERING (DESIGN DRAFTING)

CRICOS CODE 092138J NATIONAL CODE CRS1400353

Structural engineering draftspeople are integral to the infrastructure projects of the modern world, bringing their innovative design to buildings, bridges and public spaces. The Associate Degree in Civil and Structural Engineering (Design Drafting) was developed by TAFE SA to respond to the workforce development needs of the civil and structural consulting industry. Like many industries dependent on a specialised and highly trained workforce, this industry is experiencing a shortage of paraprofessional design drafters.

TYPICAL STUDY PROGRAM

FIRST YEAR: Construction engineering practice, engineering mathematics and mechanics, geotechnics, water infrastructure and drawing.

SECOND YEAR: Civil, structural and building services drafting, structural analysis, project management and final year engineering project, as well as electives such as environmental engineering. **Optional industry experience.**

INTAKE: January, July
LOCATION: Regency Park
DURATION: 2 years
2025 Fees: AUD\$40,270 + incidental fees (total duration)

ENTRY
Academic IELTS score of 6.0 overall with a minimum of 5.5 in all bands or equivalent.
Satisfactory completion of Year 12 including: Year 12 Maths; or for other equivalent pathways see the website for more details.
All international students will be required to undertake an Engineering Diagnostic Test during the orientation and induction program at TAFE SA (prior to commencing their course).



CAREER OPPORTUNITIES

Design drafter or technical officer supporting engineers. The degree gives students a firm foundation in both theoretical study and practical skills. As a student, you will be encouraged to experiment and explore ideas through project-based learning. In your small class, you will work on real-world examples to gain experience in your field.

FOR MORE INFORMATION

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E international@tafesa.edu.au

If you are a person who is Deaf, hard of hearing, or have a speech impairment, contact us through the National Relay Service relayservice.gov.au

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