Associate Degree in Engineering Technology

This program is aimed at students starting out in a career in engineering. It allows you to specialise in one of seven major engineering disciplines. Upon graduating from this program you may be eligible for entry into the relevant bachelor degree program.

This associate degree has seven majors you can choose to specialise in: Advanced Manufacturing and Mechatronics, Aerospace Engineering, Civil Engineering, Computer and Network Engineering, Electrical and Electronics Engineering, Mechanical Engineering and Sustainable Systems Engineering.

In the first year, you will learn fundamental principles of engineering that apply across the different majors. At the end of your first year you will select which major to specialise in for your second year.

If you have maintained a grade point average (GPA) of 2.0 or higher, you will be eligible for guaranteed entry into a degree program relevant to your major, with credit for 192 study points (equivalent to two years’ study).

Industry connections
This program has a strong Industry Advisory Committee (IAC), which links the program to industry developments. The IAC is composed of staff from local engineering organisations, who provide regular feedback on the program and the changing needs of industry.

Career outlook
This program will qualify you for employment in the public or private sector.

– Aerospace graduates may work in the aerospace industry as an aircraft maintenance engineer or aerospace design engineer at paraprofessional level.
– A civil major will allow you to work in civil and structural fields as a laboratory technician, research assistant, construction supervisor or CAD draftsperson.
– A major in computer/network engineering will allow you to pursue careers in networking, internetworking, IP telephony, network design or network support.
– With a major in electrical and electronics, you can work in electronic design, service engineering or microprocessor programming.
– Students who major in mechanical or advanced manufacturing and mechatronics can work in roles including product design and process, production planner or automation specialist.
– Sustainable systems major graduates will focus on the development of a sustainable system approach.

Professional recognition
The following majors are fully accredited by Engineers Australia:
– Civil Engineering
– Computer and Network Engineering
– Electrical and Electronics Engineering
– Mechanical Engineering
– Aerospace Engineering.

The following major is provisionally accredited by Engineers Australia:
– Advanced Manufacturing and Mechatronics

Graduates are eligible for graduate membership of Engineers Australia as an Engineering Associate.

The Sustainable Systems Engineering major is not yet accredited by Engineers Australia. Accreditation will be sought for this major as soon as it is feasible to do so within the accreditation timelines set by Engineers Australia.

Pathways
Graduates who achieve a grade point average (GPA) of at least 2.0 out of 4.0 are guaranteed entry with two years credit (equivalent to 192 credit points) into a RMIT Bachelor of Engineering (Honours) single degree program relevant to your major.
Program structure

**Year 1**
You will be introduced to fundamental engineering skills including drafting, use of hand and power tools, machine processes and manufacturing.
You will cover materials engineering and learn the processes used to construct objects from these materials and the external factors that can change their effectiveness. At the end of this year, you will choose your engineering major.

**Year 2**
You will choose subjects relevant to your engineering major. You will undertake an engineering project to design, develop and present a product, which will be carried out in conjunction with industry or in an environment that simulates a real engineering workplace.

### Civil major examples
- Steel Design
- Fluid Systems
- Structural Analysis

### Computer and Network major examples
- Network Fundamentals
- Computing Engineering
- Internetworking Technologies

### Electrical and Electronic major examples
- Advanced Electrical Theory
- Electronic Applications
- Digital System Design

### Aerospace/ Mechanical major examples
- Mechanics of Materials
- Thermo Fluids
- Mechanics of Machines

### Advanced Manufacturing and Mechatronics major examples
- Mechanics of Solids
- Digital System Design
- Computing Engineering

### Sustainable Systems major examples
- System Dynamic Modelling
- Engineering Design for Sustainability
- Thermo Fluids

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### Entrance requirements
Successful completion of an Australian Year 12 senior secondary certificate of education or equivalent.

### Prerequisites
Year 12 prerequisite: units 3 and 4 – a study score of at least 20 in Mathematical Methods (CAS) and a study score of at least 20 in any English (except EAL) or at least 25 in English (EAL).

### Additional information
Non-Year 12 applicants may submit additional information if they would like it to be considered. For semester 1 intake, this can be completed through the VTAC Personal Statement online. For semester 2 intake, this can be completed through the personal statement in the Apply Direct application.

### International opportunities
Through partner organisations in Europe, Asia and the United States, the RMIT International Industry Experience and Research Program (RIIERP) offers workplace training and academic research placements of between six and 12 months.

There are also opportunities to study abroad through Education Abroad.