What is an associate degree?

An associate degree is a two-year full-time or part-time equivalent undergraduate course resulting in a highly practical, skills-rich qualification.

Associate degrees combine practical instruction with the technical and theoretical knowledge needed for a range of specialist and generalist careers. The curriculum is relevant and thorough, the teaching style approachable and taught by academic staff who are highly qualified and industry-experienced.

Associate degrees are an accessible way to engage with higher education and taught with employability in mind. We’ve found them ideal for those exploring a new career, returning to study, looking to undertake study for the first time, or for school leavers looking for an entry pathway to a bachelor degree.

Associate Degree of Engineering

The course provides an introduction to the foundation studies of civil, mechanical and electrical engineering, together with engineering management and a range of vocationally orientated subjects in preparation for employment in a dynamic and changing workforce.

Graduates of the Associate Degree in Engineering can transition to third year of a bachelor level engineering degree in mechanical engineering, civil engineering, robotics and mechatronics, or electrical and electronic engineering.

Completion of the Associate Degree in Engineering will assist graduates in becoming eligible for membership of Engineers Australia at Associate Level (Engineering Officer).

Year 1 units

- Professional engineering
- Engineering mathematics 1
- Mechanics of structures
- Energy and motion
- Engineering mathematics 2
- Materials and processes
- Electronic systems
- Computer-aided drafting 1

Year 2 units

- Engineering mathematics 3A
- Engineering management 1
- Engineering foundation mathematics
- Sustainability concepts
- Engineering project
- Project management
- Engineering management 2
- Fluid mechanics 1 [elective], or
- Introduction to programming [elective]

Aims, objectives and competencies

- Ability to apply knowledge to basic science and engineering
- Ability to communicate effectively
- Ability to undertake problem identification, formulation and solution
- Ability to utilise a systems approach to basic engineering problems
- Ability to function effectively as an individual and team member
- Understanding of professional and ethical responsibilities
- Understanding of the principles of sustainability

Campus

- Hawthorn

Intakes

- Semester 1 (S1)
- Full-time or part-time, day and evening classes

Applications

- VTAC [S1]
- International students must study full-time
- swinburne.edu.au/apply

Prerequisites

- Standard entry: Applicants should have satisfactorily completed the Victoria VCE or its equivalent, and obtained an ATAR score of at least 60 (2012 Clearly-in ATAR 60.75)
- VCE prerequisites: at least 30 in Units 3 and 4 English (ESL) or at least 25 in any other English and a study score of at least 20 in Maths (any)

Fees (Domestic students)

- Commonwealth supported place (Band 1)

More information

- 1300 275 794
- swinburne.edu.au/associatedegree