



Program Name: Associate Degree in Engineering
Academic Plan:

Program Code: [LTEN](#) **School Code:** [EIE](#)

Program Director: [Dr Sam Ali](#)

[Program Structure or Schedule]

| | Course | | Description | Pre-requisite (You must have passed) | Study Period | Enrolment Class No. |
|---------------|--------|-------------|---|---|-----------------|--|
| | Area | Catalog No. | | | | |
| Year 1 | MATH | 1066 | Essential Mathematics 1: Algebra and Trigonometry | Refer to Course Home Page | 2 | Refer to class timetable |
| | PHYS | 1018 | Introduction to Engineering Physics | Refer to Course Home Page | 2 | Refer to class timetable |
| | COMP | 1036 | Computer Techniques | Refer to Course Home Page | 2 | Refer to class timetable |
| | ENGG | 1003 | Sustainable Engineering Practice | Refer to Course Home Page | 2 | Refer to class timetable |
| | MATH | 1067 | Essential Mathematics 2: Calculus | Refer to Course Home Page | 5 | Refer to class timetable |
| | EEET | 1025 | Electrical and Energy Systems | Refer to Course Home Page | 5 | Refer to class timetable |
| | CHEM | 1015 | Introduction to Engineering Chemistry | Refer to Course Home Page | 5 | Refer to class timetable |
| | ENGG | 1004 | Engineering Design and Innovation | Refer to Course Home Page | 5 | Refer to class timetable |

Electrical and Information Engineering Stream

| | Course | | Description | Pre-requisite (You must have passed) | Study Period | Enrolment Class No. |
|--------|--------|-------------|--|---|-----------------|--|
| | Area | Catalog No. | | | | |
| Year 2 | MATH | 1063 | Mathematical Methods for Engineers 1 | Refer to Course Home Page | 2 | Refer to class timetable |
| | RENG | 1005 | Engineering Materials | Refer to Course Home Page | 2 | Refer to class timetable |
| | EEET | 2043 | Analogue and Digital Electronic Fundamentals | Refer to Course Home Page | 2 | Refer to class timetable |
| | EEET | 1003 | Electrical Circuit Theory | Refer to Course Home Page | 2 | Refer to class timetable |
| | MATH | 1064 | Mathematical Methods for Engineers 2 | Refer to Course Home Page | 5 | Refer to class timetable |
| | EEET | 1024 | Mechanics and Physics | Refer to Course Home Page | 5 | Refer to class timetable |
| | EEET | 1007 | Principles of Computer Systems | Refer to Course Home Page | 5 | Refer to class timetable |
| | COMP | 1040 | Programming Fundamentals | Refer to Course Home Page | 5 | Refer to class timetable |

Mechanical Engineering Stream

| | Course | | Description | Pre-requisite (You must have passed) | Study Period | Enrolment Class No. |
|---------------|--------|-------------|--|---|-----------------|--|
| | Area | Catalog No. | | | | |
| Year 2 | MATH | 1063 | Mathematical Methods for Engineers 1 | Refer to Course Home Page | 2 | Refer to class timetable |
| | RENG | 1005 | Engineering Materials | Refer to Course Home Page | 2 | Refer to class timetable |
| | MFET | 2001 | Manufacturing Practice | Refer to Course Home Page | 2 | Refer to class timetable |
| | MENG | 2009 | Mechanical Engineering Practice N | Refer to Course Home Page | 2 | Refer to class timetable |
| | MATH | 1064 | Mathematical Methods for Engineers 2 | Refer to Course Home Page | 5 | Refer to class timetable |
| | EEET | 1024 | Mechanics and Physics | Refer to Course Home Page | 5 | Refer to class timetable |
| | MFET | 3011 | Operations Management for Engineers | Refer to Course Home Page | 5 | Refer to class timetable |
| | MENG | 2002 | Fluid and Energy Engineering | Refer to Course Home Page | 5 | Refer to class timetable |

Civil Engineering Stream

| | Course | | Description | Pre-requisite (You must have passed) | Study Period | Enrolment Class No. |
|--------|--------|--|---|---|--|--|
| | Area | Catalog No. | | | | |
| Year 2 | MATH | 1063 | Mathematical Methods for Engineers 1 | Refer to Course Home Page | 2 | Refer to class timetable |
| | RENG | 1005 | Engineering Materials | Refer to Course Home Page | 2 | Refer to class timetable |
| | CIVE | 2001 | Geoinformatics for Engineers | Refer to Course Home Page | 2 | Refer to class timetable |
| | CIVE | 4021 | Transportation Engineering OR | Refer to Course Home Page | 2 | Refer to class timetable |
| | ENGG | 3002 | Environmental Engineering N | Refer to Course Home Page | 2 | Refer to class timetable |
| | MATH | 1064 | Mathematical Methods for Engineers 2 | Refer to Course Home Page | 5 | Refer to class timetable |
| | EEET | 1024 | Mechanics and Physics | Refer to Course Home Page | 5 | Refer to class timetable |
| | EART | 3012 | Engineering and Environmental Geology | Refer to Course Home Page | 5 | Refer to class timetable |
| CIVE | 2009 | Civil Engineering Practice | Refer to Course Home Page | 5 | Refer to class timetable | |

Rules

1. Students may take electives from more than one stream but this may affect the amount of credit they are entitled to if they elect to transfer to a Bachelor of Engineering degree.
2. Students may, with the approval of the program director, substitute other appropriate courses such as TAFE courses where these assist with a pathway towards studies in Engineering. This may affect the amount of credit they are entitled to if they elect to transfer to a Bachelor of Engineering degree.
3. Subject to approval by the program director and the availability of a suitable placement, students may also substitute the course, Directed Engineering Workplace Studies (MENG 1011) for one of the Stream Electives.
4. Students who have completed prior studies may be eligible for up to four courses credit in this program subject to the approval of the program director. Credit will not be given for any of the courses Essential Mathematics 1 : Algebra and Trigonometry, Essential Mathematics 2 : Calculus, Introduction to Engineering Physics or Introduction to Engineering Chemistry. Students who have previously studied material equivalent to these courses must select additional Stream electives from undergraduate engineering programs at the University of South Australia or equivalent, with the approval of the Program Director.
5. Students may be eligible for transfer to a Bachelor of Engineering degree if they a. successfully complete 8 courses in this program, including any courses for which they have successfully applied for credit as a result of prior studies and b. have successfully completed the pre-requisite and assumed knowledge required for the Bachelor of Engineering degree
6. Only courses which are included in the degree being applied for will be credited. This means, in particular, that the four courses : Introduction to Mathematics 1 and 2, Introduction to Engineering Chemistry and Introduction to Engineering Physics, students will not be credited for those courses in the Bachelor of Engineering degree. Similarly courses taken from a different stream than the degree being applied for are also unlikely to be credited.
7. Students who undertake the Associate Degree of Engineering will NOT be eligible for transfer into the accelerated 3 year pathway in engineering.