## Study Plan Notes

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## No Major

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## Aerospace Engineering Major

- 4

## Defence Systems Major

- 5

## Mechanical Engineering Major

- 6

## Mechatronics and Robotics Major

- 7

## Medical Technologies Major

- 8

## Renewable Energy Major

- 9

## Smart Technologies Major

- 10

## Sports Engineering Major

- 11

## Mechanical Engineering Electives

- 12
**Program structure**
This is a five-year program with electives commencing in the second year. The final year contains the two-semester Research Project capstone course. Students may follow study plans specifying electives to complete a 24-unit Major and/or a 12-unit Minor within the program. Successful completion of the Program with a Major requires completion of all courses specified in that Major’s study plan. All Majors consist of the same number of units and fill available electives slots, with one remaining to be chosen by the student.

**Alternative courses**
There are a small number of alternative course offerings that are not indicated in the study plans. TECH 1006 may be taken as a semester 2 alternative to CEME 1004. CEME 2001 may be taken as a semester 1 alternative to MECH ENG 2002. ENG 3004 and ENG 3005 may be taken in either semester. The consecutive pair ENG 4001A and ENG 4001B may commence in either semester.

**Hands on Training**
All Mechanical Engineering students are required to complete the ECMS Hands-On Training courses, information regarding this will be communicated via email to students.

**Internships**
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies. Internships are self-sourced and further information can be found on the Engineering Internships web page: [https://ecms.adelaide.edu.au/study-with-us/student-support/internships/engineering](https://ecms.adelaide.edu.au/study-with-us/student-support/internships/engineering).

**General Electives**
How to choose an elective course in your area of interest?
Please refer to the steps via the link: [https://ecms.adelaide.edu.au/study-with-us/student-support/enrolment](https://ecms.adelaide.edu.au/study-with-us/student-support/enrolment)

**Program Rules**
For academic program rules please refer to the following website: [https://calendar.adelaide.edu.au/faculty/ecms](https://calendar.adelaide.edu.au/faculty/ecms)

**Information and Enrolment Advice**
Ask ECMS
Email: askecms@adelaide.edu.au
# Bachelor of Engineering (Honours) (Mechanical) with Bachelor of Finance and Banking

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### 2022 Study Plan

**Bachelor of Engineering (Honours) (Mechanical) with Bachelor of Finance and Banking — Semester 1 Start**

#### No Major

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### Internship

All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of **internship** during the course of their studies – see note on page 2.

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### Core Course

| ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering. |

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*Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.*

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*Last published 26 November 2021*
## Aerospace Engineering Major

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<td>MECH ENG 2101</td>
<td>Thermo-Fluids I</td>
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### Internship

All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.

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Core Course | Major course | Elective (see table) | Double Degree Courses / Elective (see table)

^ Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.
# Bachelor of Engineering (Honours) (Mechanical) with Bachelor of Finance and Banking — Semester 1 Start

## Defence Systems Major

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Core Course  | Major course  | Elective (see table)  | Double Degree Courses / Elective (see table)

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## Bachelor of Engineering (Honours) (Mechanical) with Bachelor of Finance and Banking — Semester 1 Start

### Mechanical Engineering Major

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### 2022 Study Plan

**Bachelor of Engineering (Honours) (Mechanical) with Bachelor of Finance and Banking — Semester 1 Start**

#### Mechatronics and Robotics Major

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#### Internship

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### Core Course

- ENG 1011 Introduction to Engineering
- ENG 1001 Introduction to Engineering - EAL

### Major course

- MATHS 1011 Mathematics IA
- ENG 1001 Introduction to Engineering

### Elective (see table)

### Double Degree Courses / Elective (see table)

^ Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.

Last published 26 November 2021
## 2022 Study Plan

**Bachelor of Engineering (Honours) (Mechanical) with Bachelor of Finance and Banking — Semester 1 Start**

### Medical Technologies Major

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### Internship

All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.

### Year 4

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### Core Course / Major course / Elective (see table) / Double Degree Courses / Elective (see table)

^Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.
# Renewable Energy Major

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### Internship

All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.

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### Core Course

- MATHS 1011: Mathematics IA
- MATHS 1012: Mathematics IB
- MATHS 2106: Differential Equations for Engineers II
- MATHS 2107: Statistics & Numerical Methods II
- MECH ENG 3102: Heat Transfer & Thermodynamics
- MECH ENG 2101: Mechatronics IM

### Major course

- ENG 3004: Systems Engineering & Industry Practice
- ENG 3005: Research Method & Project Management
- MECH ENG 4064: Renewable Power Technologies
- MECH ENG 4112: Combustion Technologies & High Temperature Processes
- CORPFIN 3501: Portfolio Theory & Management III

### Elective (see table)

- ENG 1011: Introduction to Engineering
- ENG 1002: Programming (Matlab and C)
- ENG 1001: Introduction to Engineering
- CHEM ENG 1009: Materials I
- CHEM ENG 1009: Materials I
- CHEM ENG 1009: Materials I
- MECH ENG 1007: Engineering Mechanics – Dynamics
- MECH ENG 2100: Design Practice
- MECH ENG 2002: Stress Analysis & Design
- MECH ENG 2021: Thermo-Fluids I
- MECH ENG 2021: Thermo-Fluids I
- MECH ENG 2100: Design Practice
- MECH ENG 2002: Stress Analysis & Design
- MECH ENG 2021: Thermo-Fluids I
- MECH ENG 2021: Thermo-Fluids I
- MECH ENG 2100: Design Practice
- MECH ENG 2002: Stress Analysis & Design
- MECH ENG 2021: Thermo-Fluids I
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- MECH ENG 2100: Design Practice
- MECH ENG 2002: Stress Analysis & Design
- MECH ENG 2021: Thermo-Fluids I
- MECH ENG 2021: Thermo-Fluids I
- MECH ENG 2100: Design Practice
- MECH ENG 2002: Stress Analysis & Design
- MECH ENG 2021: Thermo-Fluids I
- MECH ENG 2021: Thermo-Fluids I

### Double Degree Courses / Elective (see table)

- CORPFIN 3501: Portfolio Theory & Management III
- ECON 1009: International Financial Institutions & Markets I
- ACCTING 1002: Introductory Accounting I
- ECON 1012: Principles of Economics I
- MATHS 3012: Financial Modelling: Tools & Techniques III
- ECON 2501: Financial Institutions Management II
- ECON 2504: Options, Futures & Risk Management
- CORPFIN 2502: Business Valuation II

### Notes

- Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.
# Bachelor of Engineering (Honours) (Mechanical) with Bachelor of Finance and Banking — Semester 1 Start

## Smart Technologies Major

### Year 1

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### Internship

All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note on page 2.

### Year 3

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Core Course Major course Elective (see table) Double Degree Courses / Elective (see table)

^ Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.
# 2022 Study Plan

## Bachelor of Engineering (Honours) (Mechanical) with Bachelor of Finance and Banking — Semester 1 Start

### Sports Engineering Major

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**Core Course** | **Major course** | **Elective (see table)** | **Double Degree Courses / Elective (see table)**

^ Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering.
# Mechanical Engineering Electives

Not all Majors and Double Degrees permit electives in every semester slot.

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