# Program Plan

**Bachelor of Mechanical Engineering (Honours)**

**Start Date:**
Trimester 1, & 3 2021

**Location:**
Singapore

This Program Plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek advice from your Program Advisor to ensure you remain on track.

**Program Handbook**

**Course Handbook**

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### Year 1

#### Trimester 1
- **ENGG1003** Introduction to Procedural Programming (CORE)
- **ENGG1500** Introduction to Professional Engineering (CORE)
- **CIVL1100** Fundamentals of Engineering Mechanics (CORE)
- **MATH1110** Mathematics for Engineering, Science and Technology 1 (CORE)

#### Trimester 2
- **MECH1110** Introduction to Mechanical Engineering Design (CORE)
- **ELEC1310** Introduction to Electrical Engineering (CORE)
- **MATH1120** Mathematics for Engineering, Science and Technology 2 (CORE)
- **MECH1750** Engineering Materials 1 (CORE)

#### Trimester 3
- **ENGG1500** Introduction to Professional Engineering (CORE)
- **MATH1120** Mathematics for Engineering, Science and Technology 2 (CORE)
- **MECH1750** Engineering Materials 1 (CORE)

### Year 2

#### Trimester 1
- **MECH2360** Dynamics of Machines (CORE)
- **MECH2450** Engineering Computations 2 (CORE)
- **ENGG2440** Modelling and Control (CORE)
- **ENGG2300** Engineering Fluid Mechanics (CORE)

#### Trimester 2
- **ENGG2500** Sustainable Engineering Practice (CORE)
- **MECH3400** Materials Science and Engineering 2 (CORE)
- **MECH3695** Heat Transfer (CORE)
- **ELECTIVE**

#### Trimester 3
- **MECH3110** Mechanical Engineering Design 2 (CORE)
- **MECH3720** Thermodynamics (CORE)
- **MECH3780** Fluid Mechanics 2 and CFD (CORE)
- **MECH3780** Mechanics of Solids 2 and FEA (CORE)

### Year 3

#### Trimester 1
- **MECH4841A** Mechanical Engineering Project A (CORE)
- **ENGG3500** Managing Engineering Projects (ELECTIVE)
- **ENGG3500** Managing Engineering Projects (ELECTIVE)

#### Trimester 2
- **ELECTIVE**
- **ENGG4500** Engineering Complexity (ELECTIVE)
- **MECH4841B** Mechanical Engineering Project B (20 units) (ELECTIVE)

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**Course Status Key**
- C = Completed
- En = Enrolled
- NS = Not Started

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If you have any questions visit [NEWCASTLE.EDU.AU/ASKUON](https://NEWCASTLE.EDU.AU/ASKUON)
To be eligible to graduate make sure you have completed 320 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core courses – 280 units
- Elective courses – 40 units. Visit the Program Handbook for more information
- Students must not exceed 120 units at 1000 level in this program and at least 40 units must be taken at each level from 2000 level and above
- It is also a requirement that students complete a total of 12 weeks of industrial experience.
- The duration of this program is 3 years full-time (40 units per trimester) or part-time equivalent.
- The maximum time to complete this program is 10 years.

Some courses have assumed knowledge and/or requisites, please refer to the individual Course Handbook. Please refer to the Program Handbook for specific information on program structure. If you are intending varying from this program plan please seek advice from your Program Advisor.