

PROGRAM PLAN

BACHELOR OF AEROSPACE SYSTEMS ENGINEERING (HONOURS)

PROGRAM OPTION:
Full Time or Part Time

START DATE:
Semester 1 2021

LOCATION:
Callaghan

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 Academic Program Advisor to ensure you remain on track.

 **PROGRAM HANDBOOK**

 **COURSE HANDBOOK**

NAME:

STUDENT NO.:

COURSE STATUS KEY

C = Completed

En = Enrolled

NS = Not Started

YEAR 1	SEMESTER 1	ENGG1003 Introduction to Procedural Programming CORE	ENGG1500 Introduction to Professional Engineering CORE	MATH1110 Mathematics for Engineering, Science and Technology 1 CORE	MECH1110 Introduction to Mechanical Engineering Design CORE
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SEMESTER 2	CIVL1100 Fundamentals of Engineering Mechanics CORE	ELEC1310 Introduction to Electrical Engineering CORE	MATH1120 Mathematics for Engineering, Science and Technology 2 CORE	MECH1750 Engineering Materials 1 CORE
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YEAR 2	SEMESTER 1	AERO2000 Aircraft Performance and Operations CORE	ELEC2320 Electrical & Electronic Circuits CORE	MATH2310 Calculus of Science & Engineering CORE	MECH2360 Dynamics of Machines CORE
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SEMESTER 2	ELEC1710 Digital and Computer Engineering 1 CORE	ENGG2300 Engineering Fluid Mechanics CORE	ENGG2440 Modelling and Control CORE	ENGG2500 Sustainable Engineering Practice CORE
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YEAR 3	SEMESTER 1	AERO3000 Flight Dynamics CORE <i>First offered in 2021</i>	AERO3600 Embedded Control Systems CORE	ENGG3500 Managing Engineering Projects CORE	MCHA3400 Embedded Systems Engineering CORE
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SEMESTER 2	AERO3400 Aerospace Propulsion Systems CORE <i>First offered in 2021</i>	ENGG4500 Engineering Complexity CORE	MCHA3500 Mechatronics Design 1 CORE	MECH2430 Mechanics of Solids 1 CORE
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YEAR 4	SEMESTER 1	AERO4100 Aircraft Systems & Avionics CORE <i>First offered in 2022</i>	AERO4300 Aircraft Structural Design CORE <i>First offered in 2022</i>	ELECTIVE <i>This can be of any level, and can be taken in any term, including summer or winter</i>	ENGG4801A[^] Engineering Final Year Project A CORE
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SEMESTER 2	AERO4500 Aerospace System Design CORE <i>First offered in 2022</i>	AERO4600 Automatic Flight Control Systems CORE <i>First offered in 2022</i>	ELECTIVE <i>This can be of any level, and can be taken in any term, including summer or winter</i>	ENGG4801B[^] Engineering Final Year Project B CORE <i>This must be completed in the semester immediately following ENGG4801A</i>
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COMPULSORY REQUIREMENT: EXPOSURE TO PROFESSIONAL PRACTICE (EEP)/INDUSTRIAL EXPERIENCE (IE) 12 WEEKS

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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 – 300 units

Enrolment in maths courses is based on your assumed knowledge. To find out which MATH courses you should enrol in please see the [Enrolling in Maths](#) information. More information is in your [Program Handbook](#).

^ **ENGG4801B** must be completed in the semester immediately following **ENGG4801A**.

- **Electives** – 20 units, of any **level**. Students can choose from any **unrestricted** course taught at the University (as long as it is not already a core course of this degree). Visit the [Course Handbook](#) to see a list of available electives.

Please note, completion of **MATH1002** counts as 10 units of electives.

- Students must not exceed 120 units at 1000 level in this program.
- Students must undertake 12 weeks of approved **industrial experience**.
- The duration of this program is 4 year full-time (40 units per semester) 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 [Academic Program Advisor](#).