

PROGRAM PLAN



BACHELOR OF AEROSPACE SYSTEMS ENGINEERING (HONOURS)

PROGRAM OPTION:
Full Time or Part Time

START DATE:
Semester 2 2019 – 2020

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	ENGG1500 Introduction to Professional Engineering	MATH1120 Mathematics for Engineering, Science and Technology 2	MECH1110 Introduction to Mechanical Engineering Design
	CORE	CORE	CORE <i>Replaces option of MATH1120 OR MATH1220</i>	CORE <i>In 2021 changed from Sem 2 to Sem 1</i>

YEAR 2

SEMESTER 1	AERO2000 Aircraft Performance and Operations	ELEC2320 Electrical & Electronic Circuits	ENGG3500 Managing Engineering Projects	MECH2360 Dynamics of Machines
	CORE <i>In 2021 changed from Sem 2 to Sem 1</i>	CORE	CORE	CORE

YEAR 3

SEMESTER 1	AERO3000 Flight Dynamics	AERO3600 Embedded Control Systems	ELECTIVE <i>This can be of any level, and can be taken in any term, including summer or winter</i>	MCHA3400 Embedded Systems Engineering
	CORE <i>First offered in 2021</i>	CORE		CORE

YEAR 4

SEMESTER 1	AERO4100 Aircraft Systems & Avionics	AERO4300 Aircraft Structural Design	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>First offered in 2022</i>	CORE <i>First offered in 2022</i>		CORE <i>This must be completed in the semester immediately following ENGG4801A</i>

YEAR 5

SEMESTER 2	CIVL1100 Fundamentals of Engineering Mechanics	ELEC1310 Introduction to Electrical Engineering	MATH1110 Mathematics for Engineering, Science and Technology 1	MECH1750 Engineering Materials 1
	CORE	CORE	CORE <i>Replaces option of MATH1110 OR MATH1210</i>	CORE <i># From 2021 MECH1750 will count in place of PHYS1210</i>

SEMESTER 2	ELEC1710 Digital and Computer Engineering 1	ENGG2300 Engineering Fluid Mechanics	ENGG2500 Sustainable Engineering Practice	MATH2310 Calculus of Science & Engineering
	CORE	CORE <i># From 2021 ENGG2300 will count in place of MECH2710</i>	CORE <i>In 2021 changed from Sem 1 to Sem 2</i>	CORE

SEMESTER 2	AERO3400 Aerospace Propulsion Systems	ENGG2440 Modelling and Control	ENGG4500 Engineering Complexity	MECH2430 Mechanics of Solids 1
	CORE <i>First offered in 2021</i>	CORE	CORE	CORE

SEMESTER 2	AERO4500 Aerospace System Design	AERO4600 Automatic Flight Control Systems	ENGG4801A Engineering Final Year Project A	MCHA3500 Mechatronics Design 1
	CORE <i>First offered in 2022</i>	CORE <i>First offered in 2022</i>	CORE	CORE

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
Prior to 2021, students could choose to complete either MATH1110 and MATH1120, **OR** MATH1210 and MATH1220. Choice of maths courses is based on your assumed knowledge. To find out which MATH course you should enrol in please see the [Enrolling in Maths information](#). More information is in your [Program Handbook](#). Note that due to course offerings it is recommended midyear commencing students take MATH1110 and MATH1120, and that you also consider the University's [Summer School](#) offerings following your first semester.
After 2021, the option to do MATH1210 and MATH1220 has been removed from the program. **From 2021 onwards:** 1) if you have not yet completed MATH1210 you must complete MATH1110; and 2) if you haven't completed MATH1220 then you must complete MATH1120.
Students are required to complete just one of these two courses. Refer to the transition document in the [Program Handbook](#) for further information.
- **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 Progress Advisor](#).