PROGRAM PLAN

BACHELOR OF AEROSPACE SYSTEMS ENGINEERING (HONOURS)

PROGRAM OPTION:
Full Time or Part Time

START DATE:
Semester 2 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 2	SEMESTER 1	**ENGG1003** Introduction to Procedural Programming CORE	**ENGG1500** Introduction to Professional Engineering CORE	**MATH1120** Mathematics for Engineering, Science and Technology 2 CORE	**MECH1110** Introduction to Mechanical Engineering Design CORE
	SEMESTER 2	**CIVL1100** Fundamentals of Engineering Mechanics CORE	**ELEC1310** Introduction to Electrical Engineering CORE	**MATH1110** Mathematics for Engineering, Science and Technology 1 CORE	**MECH1750** Engineering Materials 1 CORE
YEAR 3	SEMESTER 1	**AERO2000** Aircraft Performance and Operations CORE	**ELEC2320** Electrical & Electronic Circuits CORE	**ENGG3500** Managing Engineering Projects CORE	**MECH2360** Dynamics of Machines CORE
	SEMESTER 2	**ELEC1710** Digital and Computer Engineering 1 CORE	**ENGG2300** Engineering Fluid Mechanics CORE	**ENGG2500** Sustainable Engineering Practice CORE	**MATH2310** Calculus of Science & Engineering CORE
YEAR 4	SEMESTER 1	**AERO3000** Flight Dynamics CORE *First offered in 2021*	**AERO3600** Embedded Control Systems CORE	**ELECTIVE** *This can be of any level, and can be taken in any term, including summer or winter*	**MCHA3400** Embedded Systems Engineering CORE
	SEMESTER 2	**AERO3400** Aerospace Propulsion Systems CORE *First offered in 2021*	**ENGG2440** Modelling and Control CORE	**ENGG4500** Engineering Complexity CORE	**MECH2430** Mechanics of Solids 1 CORE
YEAR 5	SEMESTER 1	**AERO4100** Aircraft Systems & Avionics CORE *First offered in 2022*	**AERO4300** Aircraft Structural Design CORE *First offered in 2022*	**ELECTIVE** *This can be of any level, and can be taken in any term, including summer or winter*	**ENGG4801B^** Engineering Final Year Project B *This must be completed in the semester immediately following ENGG4801A* CORE
	SEMESTER 2	**AERO4500** Aerospace System Design CORE *First offered in 2022*	**AERO4600** Automatic Flight Control Systems CORE *First offered in 2022*	**ENGG4801A^** Engineering Final Year Project A CORE	**MCHA3500** Mechatronics Design 1 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

  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**.