

PROGRAM PLAN

BACHELOR OF MECHATRONICS 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	ENGG1500 Introduction to Professional Engineering	MATH1110 Mathematics for Engineering, Science and Technology 1	MECH1110 Introduction to Mechanical Engineering Design
		CORE	CORE	CORE	CORE

SEMESTER 2	CIVL1100 Fundamentals of Engineering Mechanics	ELEC1310 Introduction to Electrical Engineering	MATH1120 Mathematics for Engineering, Science and Technology 2	MECH1750 Engineering Materials 1
	CORE	CORE	CORE	CORE

YEAR 2	SEMESTER 1	ELEC2320 Electrical & Electronic Circuits	MATH2310 Calculus of Science & Engineering	MECH2110 Mechanical Engineering Design 1	MECH2360 Dynamics of Machines
		CORE	CORE	CORE	CORE

SEMESTER 2	ELEC1710 Digital and Computer Engineering 1	ELEC2430 Circuits and Signals	ENGG2440 Modelling and Control	ENGG2500 Sustainable Engineering Practice
	CORE	CORE	CORE	CORE

YEAR 3	SEMESTER 1	AERO3600 Embedded Control Systems	ENGG2100 Engineering Risk & Uncertainty	ENGG3500 Managing Engineering Projects	MCHA3400 Embedded Systems Engineering
		CORE	CORE	CORE	CORE

SEMESTER 2	ENGG2300 Engineering Fluid Mechanics	ENGG3300 Machine Learning for Engineers	ENGG4440 Nonlinear Control and Estimation	MCHA3500 Mechatronics Design 1
	CORE	CORE	CORE	CORE

YEAR 4	SEMESTER 1	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	MCHA4100 Mechatronics Systems (20 units)
			CORE	CORE

SEMESTER 2	ELECTIVE <i>This can be of any level, and can be taken in any term, including summer or winter</i>	ENGG4500 Engineering Complexity	ENGG4801B^ Engineering Final Year Project B	MCHA4400 Vision-based Navigation
		CORE	CORE <i>This must be completed in the semester immediately following ENGG4801A</i>	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 course 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. Students can choose from any **unrestricted** courses taught at the University (as long as it is not already a core course of this degree). Visit the [Program Handbook](#) and [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](#).