

PROGRAM PLAN

BACHELOR OF MECHANICAL ENGINEERING (HONOURS)

PROGRAM OPTION:

Full time or part time

START DATE:

Semester 1 2021
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

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| YEAR 1 | SEMESTER 1 | ENGG1003 Introduction to Procedural Programming CORE | ENGG1500 Introduction to Professional Engineering CORE | MATH1110 * Maths for Engineering, Science & 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 * Maths for Engineering, Science & Technology 2 CORE | MECH1750 Engineering Materials CORE |
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| YEAR 2 | SEMESTER 1 | ENGG2100 Engineering Risk & Uncertainty CORE | MATH2310 Calculus of Science & Engineering CORE | MECH2110 Mechanical Engineering Design 1 CORE | MECH2360 Dynamics of Machines CORE |
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| SEMESTER 2 | ENGG2300 Engineering Fluid Mechanics CORE | ENGG2500 Sustainable Engineering Practice CORE | MECH2430 Mechanics of Solids 1 CORE | MECH2450 Engineering Computations 2 CORE |
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| YEAR 3 | SEMESTER 1 | ENGG3500 Managing Engineering Projects CORE | MECH3110 Mechanical Engineering Design 2 CORE | MECH3400 Materials Science & Engineering 2 CORE | MECH3695 Heat Transfer CORE |
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| SEMESTER 2 | ENGG2440 Modelling & Control CORE | MECH3720 Thermodynamics CORE | MECH3780 Fluid Mechanics 2 & CFD CORE | ELECTIVE <i>Please see information about electives on the next page</i> <i>Electives can be taken in any term, including summer or winter</i> |
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| YEAR 4 | SEMESTER 1 | ELECTIVE <i>Please see information about electives on the next page</i> <i>Electives can be taken in any term, including summer or winter</i> | ELECTIVE <i>Please see information about electives on the next page</i> <i>Electives can be taken in any term, including summer or winter</i> | MECH4410 Mechanics of Solids 2 & FEA CORE | MECH4841A Mechanical Engineering Project A CORE |
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| SEMESTER 2 | MECH4841B Mechanical Engineering Project B (20 units) CORE <i>This course must be completed in the semester immediately following MECH4841A</i> | ENGG4500 Engineering Complexity CORE | ELECTIVE <i>Please see information about electives on the next page</i> <i>Electives can be taken in any term, including summer or winter</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 – 280 units
 - * Includes 20 units of Mathematics with assumed knowledge. Please see the [Enrolling in Maths information](#). There is more information in your [program handbook](#).
 - **Electives** – 40 units. Students can choose from any **unrestricted** course taught at the University (as long as it is not already a core course of this degree)
Suggested electives include:
 - MECH3130** Mechanics of Bulk Solids and Particulates
 - MECH4220** Bulk Materials Handling and Transportation
 - MECH4580** Computer Aided Engineering and Manufacturing (*please see the course handbook for enrolment restrictions*)
 - RENE3000** Solar and WindVisit the [Program Handbook](#) and [Course Handbook](#) to see a list of all available courses from which you may select electives.
- Students must not exceed 120 units at 1000 level in this program. At least 40 units must be taken at levels 2000, 3000 and 4000.
 - 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](#).