PROGRAM PLAN

BACHELOR OF MECHANICAL 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 1 SEMESTER 1	**CIVL1100** Fundamentals of Engineering Mechanics **CORE**	**ELEC1310** Introduction to Electrical Engineering **CORE**	**MATH1110 *** Maths for Engineering, Science & Technology 1 **CORE**	**MECH1750** Engineering Materials 1 **CORE**
YEAR 1 SEMESTER 2	**ENGG1003** Introduction to Procedural Programming **CORE**	**ENGG1500** Introduction to Professional Engineering **CORE**	**MATH1120 *** Maths for Engineering, Science & Technology 2 **CORE**	**MECH1110** Introduction to Mechanical Engineering Design **CORE**
YEAR 2 SEMESTER 1	**ENGG2500** Sustainable Engineering Practice **CORE**	**MATH2310** Calculus of Science & Engineering **CORE**	**MECH2430** Mechanics of Solids 1 **CORE**	**MECH2450** Engineering Computations 2 **CORE**
YEAR 2 SEMESTER 2	**ENGG2100** Engineering Risk & Uncertainty **CORE**	**MECH2110** Mechanical Engineering Design 1 **CORE**	**MECH2360** Dynamics of Machines **CORE**	**MECH3400** Materials Science & Engineering 2 **CORE**
YEAR 3 SEMESTER 1	**ENGG2300** Engineering Fluid Mechanics **CORE**	**ENGG2440** Modelling & Control **CORE**	**ELECTIVE** *Please see information about electives on the next page Electives can be taken in any term, including summer or winter*	**ELECTIVE** *Please see information about electives on the next page Electives can be taken in any term, including summer or winter*
YEAR 3 SEMESTER 2	**ELECTIVE** *Please see information about electives on the next page Electives can be taken in any term, including summer or winter*	**ENGG3500** Managing Engineering Projects **CORE**	**MECH3110** Mechanical Engineering Design 2 **CORE**	**MECH3695** Heat Transfer **CORE**
YEAR 4 SEMESTER 1	**MECH4841A** Mechanical Engineering Project A **CORE**	**ENGG4500** Engineering Complexity **CORE**	**MECH3720** Thermodynamics **CORE**	**MECH3780** Fluid Mechanics 2 & CFD **CORE**
YEAR 4 SEMESTER 2	**ELECTIVE** *Please see information about electives on the next page Electives can be taken in any term, including summer or winter*	**MECH4410** Mechanics of Solids 2 & FEA **CORE**	**MECH4841B** Mechanical Engineering Project B (20 units) **CORE** *This course must be completed in the semester immediately following MECH4841A*	

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 Wind

  Visit 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**.