

PROGRAM PLAN

MASTER OF PROFESSIONAL ENGINEERING (MECHANICAL)

PROGRAM OPTION:
PATHWAY A (240 units)

START DATE:
Semester 1 & 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 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

COMMENCING IN SEMESTER 1

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|--------|--------------|--|---|--|---|
| YEAR 1 | SEM 1 | DIRECTED <i>Please note, this can be studied in any term</i> | MATH2310 Calculus of Science and Engineering CORE | MECH2360 Dynamics of Machines CORE | MECH3400 Materials Science and Engineering 2 CORE |
| | SEM 1 | DIRECTED <i>Please note, this can be studied in any term</i> | ENGG3500 Managing Engineering Projects CORE | MECH3110 Mechanical Engineering Design 2 CORE | MECH3695 Heat Transfer CORE |
| | SEM 1 | DIRECTED <i>Please note, this can be studied in any term</i> | MECH6110 Mechanical Design Project CORE | MECH6410 Advanced Mechanics of Solids and FEA CORE | MECH6840A MPE Thesis A CORE |

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|--------|-------------------|--|--|--|---|
| YEAR 2 | SEM 2 | ELEC1310 Introduction to Electrical Engineering CORE | MECH2430 Mechanics of Solids 1 CORE | MECH2450 Engineering Computations 2 CORE | MECH2710 Fluid Mechanics 1 CORE |
| | SEM 2 | ENGG6400 Modelling and Control CORE | ENGG6500 Engineering Complexity CORE | MECH3720 Thermodynamics CORE | DIRECTED <i>Please note, this can be studied in any term</i> |
| | SEMESTER 2 | MECH6840B MPE Thesis B (20 units) <i>This course must be taken in the semester immediately following MECH6840A</i> | | MECH6480 Advanced Fluid Mechanics and CFD CORE | ELECTIVE <i>This can be taken in any term, including summer or winter</i> |

COMMENCING IN SEMESTER 2

| | | | | | |
|--------|-------------------|--|---|--|--|
| YEAR 2 | SEM 1 | DIRECTED <i>Please note, this can be studied in any term</i> | ENGG3500 Managing Engineering Projects CORE | MECH2360 Dynamics of Machines CORE | MECH3400 Materials Science and Engineering 2 CORE |
| | SEM 1 | DIRECTED <i>Please note, this can be studied in any term</i> | MECH3110 Mechanical Engineering Design 2 CORE | MECH3695 Heat Transfer CORE | MECH6410 Advanced Mechanics of Solids and FEA CORE |
| | SEMESTER 1 | DIRECTED <i>Please note, this can be studied in any term</i> | MECH6110 Mechanical Design Project CORE | MECH6840B MPE Thesis B (20 units) <i>This course must be taken in the semester immediately following MECH6840A</i> | |

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|--------|--------------|--|---|--|---|
| YEAR 1 | SEM 2 | ELEC1310 Introduction to Electrical Engineering CORE | MATH2310 Calculus of Science and Engineering CORE | MECH2430 Mechanics of Solids 1 CORE | MECH2450 Engineering Computations 2 CORE |
| | SEM 2 | ENGG6400 Modelling and Control CORE | ENGG6500 Engineering Complexity CORE | MECH2710 Fluid Mechanics 1 CORE | ELECTIVE <i>This can be taken in any term, including summer or winter</i> |
| | SEM 2 | MECH6840A MPE Thesis A CORE | MECH3720 Thermodynamics CORE | MECH6480 Advanced Fluid Mechanics and CFD CORE | DIRECTED <i>Please note, this can be studied in any term</i> |

COMPULSORY REQUIREMENT: EXPOSURE TO PROFESSIONAL PRACTICE (EPP)/INDUSTRIAL EXPERIENCE (IE) 12 WEEKS

PROGRAM PLAN

MASTER OF PROFESSIONAL ENGINEERING (MECHANICAL)

Pathway A directed courses

Please see the [program handbook](#) for the most up-to-date information

Complete 40 units from:

[MCHA6300](#) Real-time Optimisation for Embedded Systems

[MECH6130](#) Mechanics of Bulk Solids and Particulates

[MECH6200](#) Computer Aided Engineering and Manufacturing

[MECH6250](#) Bulk Materials Handling and Transportation

[MECH6760](#) Renewable Energy Conversion

[MECH6830](#) Engineering Economic Analysis

To be eligible to graduate make sure you have completed 240 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core courses – 190 units
- [Directed courses](#) – 40 units
- Electives – 10 units. Visit the [Course Handbook](#) for more information. This elective must be at the [6000 level](#)
- [MECH6840A/MECH6840B](#) are multi-term sequence courses. Students must complete Part A before Part B, and complete Part B in the semester immediately following Part A. If you complete Part A and are unable to complete Part B within the timeframe, you must re-enrol in and complete Part A again
- The above enrolment pattern complies with the conditions of international student visas. Failing to follow this enrolment advice may result in international students not being able to graduate within the period of their Confirmation of Enrolment
- It is also a requirement that students complete a total of 12 weeks of industrial experience. More information is found [here](#)
- The duration of this program is 3 years full time (40 units per semester) or part time equivalent
- The maximum time to complete this program is 8 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 [Program Advisor](#).