

# Master of Professional Engineering (Mechatronics)



Commencing in Semester 2 2019



Studying at 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 prior advice from your [Program Advisor](#) to ensure you remain on track.

## ONE YEAR PROGRAM

### Semester 2 2018

<a href="#">MCHA6300</a> Real-time Optimisation for Embedded Systems	<a href="#">DIRECTED</a>	<a href="#">ELECTIVE</a>	<a href="#">ELECTIVE</a>
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### Semester 1 2019

<a href="#">MECH6840</a> MPE Thesis	<a href="#">MCHA6100</a> Advanced Estimation	<a href="#">ELECTIVE</a>	<a href="#">ELECTIVE</a>
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## TWO YEAR PROGRAM

### Semester 2 2018

<a href="#">ENGG6500</a> Engineering Complexity	<a href="#">DIRECTED</a>	<a href="#">ELECTIVE</a>	<a href="#">ELECTIVE</a>
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### Semester 1 2019

<a href="#">ENGG3500</a> Managing Engineering Projects	<a href="#">ENGG6440</a> Linear Control and Estimation	<a href="#">ELECTIVE</a>	<a href="#">ELECTIVE</a>
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### Semester 2 2019

<a href="#">MECH6840A</a> MPE Thesis A: Experimental Methods	<a href="#">MCHA6300</a> Real-time Optimisation for Embedded Systems	<a href="#">ENGG6441</a> Nonlinear Control and Estimation	<a href="#">MCHA6500</a> Mechatronics Design 1
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### Semester 1 2020

<a href="#">MECH6840B</a> MPE Thesis B (20 units)	<a href="#">MCHA6600</a> Mechatronics Design 2	<a href="#">MCHA6100</a> Advanced Estimation
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Program Plan Key:

= Core

= Directed

= Elective

# Master of Professional Engineering (Mechatronics) - Directed Courses

## One Year Program

Choose **10 units** of Directed Courses at 6000 level

## Two Year Program

Choose **10 units** of Directed Courses

<a href="#">ELEC3160</a>	Principles and Design of Off-Grid Power Systems
<a href="#">ELEC3251</a>	Power Electronics and Renewable Energy Systems
<a href="#">ELEC3500</a>	Telecommunication Networks
<a href="#">ELEC3730</a>	Digital and Computer Electronics 2
<a href="#">ELEC4720</a>	Programmable Logic Design
<a href="#">ELEC6100</a>	Electrical Systems
<a href="#">ELEC6160</a>	Advanced Drives and Power Electronics
<a href="#">ELEC6210</a>	Electronics Design
<a href="#">ELEC6400</a>	Signal Processing
<a href="#">ELEC6550</a>	Wireless Communication
<a href="#">ELEC6700</a>	Advanced Computer Systems
<a href="#">ENGG6400</a>	Modelling and Control
<a href="#">MECH3400</a>	Materials Science and Engineering 2
<a href="#">MECH3695</a>	Heat Transfer
<a href="#">MECH6110</a>	Mechanical Design Project
<a href="#">MECH6130</a>	Mechanics of Bulk Solids and Particulates
<a href="#">MECH6200</a>	Computer Aided Engineering and Manufacturing
<a href="#">MECH6250</a>	Bulk Materials Handling and Transportation
<a href="#">MECH6410</a>	Advanced Mechanics of Solids and FEA
<a href="#">MECH6480</a>	Advanced Fluid Mechanics and CFD
<a href="#">MECH6760</a>	Renewable Energy Conversion

**One Year Program - To be eligible to graduate make sure you have completed 80 units (10 units = 1 course unless otherwise specified) which meet the following criteria:**

- ✓ Students eligible to complete a one year program will be advised upon admission to the program
- ✓ Core courses - 30 units.
- ✓ Directed courses - 10 units (must be completed at 6000 level)
- ✓ Elective courses - 40 units (must be completed at 6000 level)
- ✓ The duration of this program is one year full-time or part-time equivalent
- ✓ The maximum time to complete this program is 4 years

**Two Year Program - To be eligible to graduate make sure you have completed 160 units (10 units = 1 course unless otherwise specified) which meet the following criteria:**

- ✓ Core courses - 110 units.
- ✓ Directed courses - 10 units
- ✓ Elective courses - 40 units (must be completed at 6000 level)
- ✓ MECH6840A and MECH6840B contribute to a multi-term sequence and must be completed in consecutive terms within a 12 month period. Students must complete Part A before Part B. If they complete Part A and are unable to complete Part B within the timeframe, they must re-complete Part A
- ✓ The duration of this program is two years full-time or part-time equivalent
- ✓ The maximum time to complete this program is 6 years



Some courses have assumed knowledge and/or requisites, please refer to the individual [Course Handbook](#).

The [Program Handbook](#) has valuable information on program structure and requirements, if you are intending on studying part time or varying from this program plan please seek prior advice from your [Program Advisor](#).

# Helpful Hints & Tips

## ENROLMENT HELP



Need help? >>  
**Ask UON >>**



How do I use the Web Timetable? >>

### RULES

It is important to follow this Program Plan.

You cannot repeat a course you've passed to try and get a better grade.

You cannot enrol in any extra courses not required by your program >>

## INFO FOR NEW STUDENTS



First year undergraduate students usually only enrol in 1000 level courses >>

New Postgraduate students should only enrol in 6000 level courses >>



Find out all you need to know about getting started at uni >>

## UNDERSTANDING COURSES & PROGRAMS



Not sure what courses to study? >>



Understanding program and course jargon >>



Understanding UON Jargon >>

## PRIOR STUDY



Check you have met the assumed knowledge and requisites for courses before enrolling >>



Have you studied elsewhere or transferred programs? Don't forget to apply for credit >>

## CONSIDERING A BREAK?



Need to take a break? This is called a 'leave of absence'. Check if you are eligible >>



Planning on going overseas? Keep electives free, so it's easier for you to receive credit for your overseas studies >>



UON offers a range of support services to assist with your health and wellbeing >>

## MORE QUESTIONS?

We are here to answer questions about your program. Talk to us your way!

Ask UON

1300 ASK UON

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or Twitter

UONline via myUON