

Bachelor of Mechanical Engineering (Honours)



Commencing in Semester 1 2017 - 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.

See the last page for some helpful hints & tips!



Semester 1

Semester 2

Year 1

<p>ENGG1003 Introduction to Procedural Programming</p>	<p>ENGG1500 Introduction to Professional Engineering</p>	<p>MATH1110* Mathematics for Engineering, Science and Technology 1 or MATH1210* Mathematical Discovery 1</p>	<p>PHYS1210** Advanced Physics I <i>May count PHYS1205 in lieu with convenor approval; contact your program advisor for more information</i></p>
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<p>CIVL1100 Fundamentals of Engineering Mechanics</p>	<p>ELEC1310 Introduction to Electrical Engineering</p>	<p>MATH1120* Mathematics for Engineering, Science and Technology 2 or MATH1220* Mathematical Discovery 2</p>	<p>MECH1110 Mechanical Drawing/CAD and Workshop Practice</p>
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Year 2

<p>ENGG2500 Sustainable Engineering Practice</p>	<p>MATH2310 Calculus of Science and Engineering</p>	<p>MECH2110 Mechanical Engineering Design 1</p>	<p>MECH2360 Dynamics of Machines</p>
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<p>MECH2250 Materials Science and Engineering 1</p>	<p>MECH2430 Mechanics of Solids 1</p>	<p>MECH2450 Engineering Computations 2</p>	<p>MECH2710 Fluid Mechanics 1</p>
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Year 3

<p>ENGG3500 Managing Engineering Projects</p>	<p>MECH3110 Mechanical Engineering Design 2</p>	<p>MECH3400 Materials Science and Engineering 2</p>	<p>MECH3695 Heat Transfer</p>
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<p>ENGG2440 Modelling and Control</p>	<p>MECH3720 Thermodynamics</p>	<p>MECH3780 Fluid Mechanics 2 and CFD</p>	<p>ELECTIVE PATHWAY</p>
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Year 4

<p>ELECTIVE PATHWAY</p>	<p>ELECTIVE PATHWAY</p>	<p>MECH4410 Mechanics of Solids 2 and FEA <i>First offered in 2020</i></p>	<p>MECH4841A Mechanical Engineering Project A</p>
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<p>MECH4841B Mechanical Engineering Project B (20 units) <i>This course must be taken in the semester immediately following MECH4841A</i></p>	<p>ENGG4500 Engineering Complexity</p>	<p>ELECTIVE PATHWAY</p>
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Professional Practice: Exposure to Professional Practice/Industrial Experience 12 weeks

Program Plan Key: = Core = Elective Pathway = [Compulsory Program Requirement](#)

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.
 - * MATH courses - 20 units. Choice of maths courses is based on your assumed knowledge. To find out which MATH courses you should enrol in please see the [Enrolling in Maths information](#). More information in your [Program Handbook](#).
 - ** PHYS courses - Students may count PHYS1205 in lieu of PHYS1210 with program convenor approval.
- ✓ Elective Pathway – 40 units, visit the [Program Handbook](#) and [Course Handbook](#) for more information.
- ✓ Students must not exceed 120 units at 1000 level in this program.
- ✓ It is also a requirement that students complete a total of 12 weeks of exposure to professional practice/industrial experience. More information is [here](#).
- ✓ The duration of this program is 4 years 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](#).
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

 Visit Student Central

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