

# Bachelor of Mechanical Engineering (Honours)/Bachelor of Business

Leadership & Management (L&M) major *or* Entrepreneurship & Innovation (E&I) major



Commencing in Semester 2 2017/18



Studying at Callaghan & Newcastle City Precinct



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.

## Semester 1

Year 1				
Year 2	<a href="#">ENGG1500</a> Introduction to Professional Engineering	<a href="#">ENGG1003</a> Introduction to Procedural Programming	<a href="#">MATH1120</a> * Mathematics for Engineering, Science & Technology 2	<a href="#">PHYS1210</a> Advanced Physics I <i>May count PHYS1205 in lieu with program convenor approval</i>
Year 3	<a href="#">ENGG2500</a> Sustainable Engineering Practice	<a href="#">MECH2110</a> Mechanical Engineering Design 1	<a href="#">MECH2360</a> Dynamics of Machines	<a href="#">ACFI1001</a> ^ Accounting for Decision Makers
Year 4	<a href="#">MECH3400</a> Materials Science & Engineering 2	<a href="#">ENGG3500</a> Managing Engineering Projects	<a href="#">ACFI1003</a> ^ Introduction to Finance	<a href="#">MAJOR</a> ^
Year 5	<a href="#">MECH3695</a> Heat Transfer	<a href="#">MAJOR</a> ^	<a href="#">MAJOR</a> ^	<a href="#">MAJOR</a> ^
Year 6	<a href="#">MAJOR</a> ^	<a href="#">MECH4410</a> Mechanics of Solids 2 & FEA	<a href="#">MECH4841B</a> Mechanical Engineering Project B (20 units) <i>This course <b>must</b> be taken in the semester immediately following MECH4841A</i>	

## Semester 2

<a href="#">CIVL1100</a> Fundamentals of Engineering Mechanics	<a href="#">MATH1110</a> * Mathematics for Engineering, Science & Technology 1	<a href="#">MECH1110</a> Mechanical Drawing/CAD and Workshop Practice	<a href="#">MNGT1001</a> ^ Introduction to Management	
<a href="#">ELEC1310</a> Introduction to Electrical Engineering	<a href="#">MATH2310</a> Calculus of Science & Engineering	<a href="#">ECON1001</a> ^ Microeconomics for Business Decisions	<a href="#">LEGL1001</a> ^ Foundations of Law	<a href="#">MKTG1001</a> ^ Foundations of Marketing
<a href="#">MECH2250</a> Materials Science & Engineering 1	<a href="#">MECH2430</a> Mechanics of Solids 1	<a href="#">MECH2450</a> Engineering Computations	<a href="#">MECH2710</a> Fluid Mechanics 1	
<a href="#">ENGG2440</a> Modelling & Control	<a href="#">ENGG4500</a> Engineering Complexity	<a href="#">MECH3110</a> Mechanical Engineering Design 2	<a href="#">MECH3780</a> Fluid Mechanics 2 & CFD	
<a href="#">MECH4841A</a> Experimental Methods	<a href="#">MECH3720</a> Thermodynamics	<a href="#">MAJOR</a> ^ <a href="#">MNGT3006</a> Entrepreneurial Strategy (20 units) <i>For E&amp;I major students</i>		
		<a href="#">MAJOR</a> ^ <i>For L&amp;M major students</i>	<a href="#">MAJOR</a> ^ <i>For L&amp;M major students</i>	

Program Plan Key: = Core = Major

= [Compulsory Program Requirement](#)

Professional Practice: Industrial Experience 12 weeks

To be eligible to graduate make sure you have completed 410 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- ✓ Core courses – 340 units.
  - \* MATH courses - 20 units. The 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 can be found in your [Program Handbook](#).
- ✓ Major – 70 units.
- ✓ If you are undertaking the Leadership and Management major, you will complete the following:
  - 30 units of major compulsory courses; please see [program handbook](#) for compulsory course list
  - 40 units of directed courses (10 units at a 1000 level, 10 units at a 2000 level and 20 units at a 3000 level).
- ✓ If you are undertaking the Entrepreneurship and Innovation major, you will complete the following:
  - 40 units of major compulsory courses; please see [program handbook](#) for compulsory course list
  - 30 units of directed courses (10 units at a 1000 level, 10 units at a 2000 level and 10 units at a 3000 level).
- ^ Please note you can choose to study these Bachelor of Business courses in a different order than is listed here, depending on your preferences and the timetable/availability. Keep in mind courses may have assumed knowledge; refer to the individual [Course Handbook](#) entry to find this information.
- ✓ It is also a requirement for the Bachelor of Engineering (Honours) (Mechanical) that students complete a total of 12 weeks of [industrial experience](#).
- ✓ The duration of this program is 5 years full time or part time equivalent.
- ✓ The maximum time to complete this program is 12 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](#).

See the next two pages for a list of major courses

# Bachelor of Mechanical Engineering (Honours)/Bachelor of Business - Leadership & Management major

## Compulsory Courses

Subject to change - Please refer to the [program handbook](#) for up to date information.

Study all **30 units** of compulsory courses

[MNGT2005](#) Leadership and Ethics  
[MNGT3011](#) Leading Organisational Change  
[MNGT3012](#) Strategic Business Management

## Directed Courses

Subject to change - Please refer to the [program handbook](#) for up to date information.

Choose **10 units** from the following 1000 level Business directed courses

[ECON1002](#) Macroeconomics in the Global Economy  
[IBUS1000](#) Managing International Business Risk  
[IRHR1002](#) Dynamics of People and Work in Organisations  
[LEIS1000](#) Leisure Behaviour and Organisations  
[MNGT1002](#) Introduction to Entrepreneurship and Innovation  
[POLI1010](#) Australian Politics and Government

Choose **10 units** from the following 2000 level Business directed courses

[MNGT2002](#) Business Venturing  
[MNGT2006](#) Decision Making under Uncertainty

Choose **20 units** from the following 3000 level Business directed courses

[BUSN3001](#) Project in Business  
[MNGT3002](#) Knowledge Management  
[MNGT3008](#) Advanced Innovation Management  
[MNGT3009](#) Business Development and Growth

# Bachelor of Mechanical Engineering (Honours)/Bachelor of Business – Entrepreneurship & Innovation major

## Compulsory Courses

Subject to change - Please refer to the [program handbook](#) for up to date information.

Study all **40 units** of compulsory courses

[MNGT2003](#) Entrepreneurial and Innovation Diversity  
[MNGT3006](#) Entrepreneurial Strategy (20 units)  
[MNGT3007](#) Social Entrepreneurship

## Directed Courses

Subject to change - Please refer to the [program handbook](#) for up to date information.

Choose **10 units** from the following 1000 level Business directed courses

[MNGT1002](#) Introduction to Entrepreneurship and Innovation

Choose **10 units** from the following 2000 level Business directed courses

[MNGT2002](#) Business Venturing  
[MNGT2004](#) Managing Innovation

Choose **10 units** from the following 3000 level Business directed courses

[MNGT3003](#) Leadership and Entrepreneurship (*not currently offered*)  
[MNGT3008](#) Advanced Innovation Management  
[MNGT3009](#) Business Development and Growth

# 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 a Student Hub
- Message us on Facebook
- or Twitter
- UONline via myUON