PROGRAM PLAN

BACHELOR OF MECHANICAL ENGINEERING (HONOURS)/ BACHELOR OF BUSINESS

PROGRAM OPTION:
Full time or part time

START DATE:
Semester 1 2017 – 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

YEAR 1	SEMESTER 1	ENGG1003 Introduction to Procedural Programming **CORE**	ENGG1500 Introduction to Professional Engineering **CORE**	MATH1110* Maths for Engineering, Science & Technology 1 *or* MATH1210* Mathematical Discovery 1 **CORE**	PHYS1210 Advanced Physics I **CORE**
	SEMESTER 2	CIVL1100 Fundamentals of Engineering Mechanics **CORE**	ELEC1310 Introduction to Electrical Engineering **CORE**	MATH1120* Maths for Eng, Sci & Tech 2 *or* MATH1220* Mathematical Discovery 2 **CORE**	MECH1110 Mechanical Drawing/CAD & Workshop Practice **CORE**	MNGT1001^ Introduction to Management **CORE**
YEAR 2	SEM 1	ENGG2500 Sustainable Engineering Practice **CORE**	MATH2310 Calculus of Science & Engineering **CORE**	MECH2360 Dynamics of Machines **CORE**	ECON1001^ Microeconomics for Business Decisions **CORE**
	SEM 2	MECH2430 Mechanics of Solids 1 **CORE**	MECH2450 Engineering Computations 2 **CORE**	MECH2710 Fluid Mechanics 1 **CORE**	MKTG1001^ Foundations of Marketing **CORE**
YEAR 3	SEM 1	ENGG3500 Managing Engineering Projects **CORE**	MECH2110 Mechanical Engineering Design 1 **CORE**	ACFI1001^ Accounting for Decision Makers **CORE**	MAJOR COURSE^
	SEM 2	ENGG2440 Modelling and Control **CORE**	MECH2250 Materials Science and Engineering 1 **CORE**	ACFI1003^ Introduction to Finance **CORE**	LEGL1001^ Foundations of Law **CORE**
YEAR 4	SEM 1	MECH3110 Mechanical Engineering Design 2 **CORE**	MECH3400 Materials Science and Engineering 2 **CORE**	MECH3695 Heat Transfer **CORE**	MAJOR COURSE^
	SEM 2	ENGG4500 Engineering Complexity **CORE**	MECH3720 Thermodynamics **CORE**	MECH3780 Fluid Mechanics 2 and CFD **CORE**	MAJOR COURSE^
YEAR 5	SEM 1	MAJOR COURSE^	MAJOR COURSE^	MECH4410 Mechanics of Solids 2 and FEA **CORE**	MECH4841A Mechanical Eng Project A **CORE**
	SEMESTER 2	MECH4841B^ Mechanical Engineering Project B (20 units) **CORE** *This course **must** be completed in the semester immediately following MECH4841A*	MAJOR COURSE^	MAJOR COURSE^

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

PROGRAM PLAN

BACHELOR OF MECHANICAL ENGINEERING (HONOURS)/ BACHELOR OF BUSINESS

LEADERSHIP AND MANAGEMENT MAJOR

Subject to change – please refer to the **program handbook** for up to date information

COMPULSORY COURSES
Complete all 30 units:

MNGT2005 Leadership and Ethics
MNGT3011 Leading Organisational Change
MNGT3012 Strategic Business Management

DIRECTED COURSES
Complete 10 units from the following 1000 level courses:

IBUS1000 Managing International Business Risk
IRHR1002 Dynamics of People and Work in Organisations
LEIS1000 Leisure Behaviour and Organisation
MNGT1002 Introduction to Entrepreneurship and Innovation
POLI1010 Australian Politics and Government

DIRECTED COURSES
Complete 10 units from the following 2000 level courses:

MNGT2002 Business Venturing
MNGT2006 Decision Making under Uncertainty

DIRECTED COURSES
Complete 20 units from the following 3000 level courses:

BUSN3001 Project in Business
MNGT3002 Knowledge Management
MNGT3008 Advanced Innovation Management
MNGT3009 Business Development and Growth

ENTREPRENEURSHIP AND INNOVATION MAJOR

Subject to change – please refer to the **program handbook** for up to date information

COMPULSORY COURSES
Complete all 40 units:
MNGT1002 Introduction to Entrepreneurship and Innovation
MNGT2002 Business Venturing
MNGT2007 Ideation in Enterprise
MNGT3016 Innovation & Entrepreneurial Strategy

DIRECTED COURSES
Complete 10 units from the following 2000 level courses:

MNGT2003 Entrepreneurial and Innovation Diversity
MNGT2004 Managing Innovation

DIRECTED COURSES
Complete 20 units from the following 3000 level courses:

BUSN30021 Industry Placement
MNGT3002 Knowledge Management
MNGT3007 Social Entrepreneurship
MNGT3008 Advanced Innovation Management
MNGT3009 Business Development and Growth

PROGRAM PLAN

BACHELOR OF MECHANICAL ENGINEERING (HONOURS)/ BACHELOR OF BUSINESS

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. There is more information 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 and 20 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 of courses. Keep in mind courses may have **assumed knowledge**

- Students must undertake 12 weeks of approved **industrial experience**
- The duration of this program is 5 year full-time (40/50 units per semester) 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**. 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**.