

PROGRAM PLAN

BACHELOR OF CHEMICAL ENGINEERING (HONOURS)/BACHELOR OF BUSINESS

PROGRAM OPTION:

Full time or Part time

START DATE:

Semester 2 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 Academic 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				
YEAR 2	SEMESTER 1 CHEM1010 Introductory Chemistry I CORE	ENGG1003 Introduction to Procedural Programming CORE	ENGG1500 Introduction to Professional Engineering CORE	MATH1120 Mathematics for Engineering, Science and Technology 2 CORE <i>Replaces option of MATH1120 OR MATH1220</i>
YEAR 3	SEMESTER 1 CHEE2325 Thermodynamics of Chemical Processes CORE	CHEE2695 Energy Transfer and Technologies CORE <i>In 2021 changed from Sem 2 to Sem 1</i>	CHEE2945 Particle and Resources Engineering CORE	MATH2310 Calculus of Science and Engineering CORE
YEAR 4	SEMESTER 1 CHEE3325 Chemical Reactor Design CORE	CHEE3425 Chemical Process Safety CORE	CHEE3735 Mass Transfer Processes CORE	ENGG3500 Managing Engineering Projects CORE
YEAR 5	SEMESTER 1 ECON1001 ^ Microeconomics for Business Development CORE	CHEE4475 Dynamic Process Simulations and Control CORE	CHEE4945A Design Project A CORE	CHEE4975A Chemical Engineering Research A CORE
YEAR 6	SEMESTER 1 MAJOR ^	MAJOR ^	MAJOR ^	MAJOR ^

SEMESTER 2	ACFI1001 ^ Accounting for Decision Makers CORE	CHEE1000 Process Engineering Principles CORE	MATH1110 * Mathematics for Engineering, Science and Technology 1 CORE <i>Replaces option of MATH1110 OR MATH1210</i>	PHYS1210 * Advanced Physics I CORE
SEMESTER 2	ACFI1003 ^ Introduction to Finance CORE	CHEM1020 Introductory Chemistry II CORE	ENGG2300 Engineering Fluid Mechanics CORE <i>Replaces CHEE2315</i>	ENGG2500 Sustainable Engineering Practice CORE <i>In 2021 changed from Sem 1 to Sem 2</i>
SEMESTER 2	CHEE2825 Chemical & Renewables Engineering Laboratory CORE	CHEE2935 Resource and Energy Optimisation CORE	MKTG1001 ^ Foundations of Marketing CORE	MNGT1001 ^ Introduction to Management CORE
SEMESTER 2	CHEE3745 Process Modelling and Separation Processes CORE	CHEE3825 Chemical Engineering Laboratory 2 CORE	LEGL1001 ^ Foundations of Law CORE	MAJOR ^
SEMESTER 2	CHEE4945B Design Project B CORE <i>This must be completed in the semester immediately following CHEE4945A</i>	CHEE4975B Chemical Engineering Research B CORE <i>This must be completed in the semester immediately following CHEE4975A</i>	ENGG4500 Engineering Complexity CORE	MAJOR ^

COMPULSORY PROFESSIONAL PRACTICE: INDUSTRIAL EXPERIENCE 12 WEEKS

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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

Prior to 2021, students could choose to complete either MATH1110 and MATH1120, **OR** MATH1210 and MATH1220. Choice of maths courses is based on your assumed knowledge. To find out which MATH course you should enrol in please see the [Enrolling in Maths information](#). More information is in your [Program Handbook](#). Note that due to course offerings it is recommended midyear commencing students take MATH1110 and MATH1120, and that you also consider the University's [Summer School](#) offerings following your first semester.

After 2021, the option to do MATH1210 and MATH1220 has been removed from the program. **From 2021 onwards:** 1) if you have not yet completed MATH1210 you must complete MATH1110; and 2) if you haven't completed MATH1220 then you must complete MATH1120. To find out which MATH course you should enrol in please see the [Enrolling in Maths information](#). More information is in your [Program Handbook](#).
- * PHYS courses. Students may count PHYS1205 in lieu of PHYS1210 with Program Convenor approval.
- ^ Please note you can choose to study these core and major Bachelor of Business courses in a different order than is listed here, depending on your preferences and the availability/timetable.
- 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 2000 level and 20 units at a 3000 level).
- It is also a requirement that students complete a total of 12 weeks of [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 [Academic Program Advisor](#).

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LEADERSHIP AND MANAGEMENT MAJOR

COMPULSORY COURSES

Complete 30 units from:

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

DIRECTED COURSES

Complete 10 units from the following 1000 level Business directed courses:

Note: MNGT1002 is Recommended

- 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 Business directed courses:

- MNGT2002** Business Venturing
- MNGT2006** Decision Making Under Uncertainty

DIRECTED COURSES

Complete 20 units from the following 3000 level Business directed courses:

- BUSN3001** Project in Business
- BUSN3002** Industry Placement
- MNGT3002** Knowledge Management
- MNGT3008** Advanced Innovation Management
- MNGT3009** Business Development and Growth

ENTREPRENEURSHIP AND INNOVATION MAJOR

COMPULSORY COURSES

Complete 40 units from:

- MNGT1002** Introduction to Entrepreneurship and Innovation
- MNGT2002** Business Venturing
- MNGT2007** Ideation in Enterprise
- MNGT3016** Innovation and Entrepreneurial Strategy

DIRECTED COURSES

Complete 10 units from the following 2000 level Business directed courses:

- MNGT2004** Managing Innovations
- MNGT2006** Decision Making Under Uncertainty

DIRECTED COURSES

Complete 20 units from the following 3000 level Business directed courses:

- BUSN3002** Industry Placement
- MNGT3002** Knowledge Management
- MNGT3007** Social Entrepreneurship
- MNGT3008** Advanced Innovation Management
- MNGT3009** Business Development and Growth