Bachelor of Engineering (Honours) (Chemical)

Commenced in Semester 2 2015 and 2016 😯 Studying at Callaghan

This Program Plan is an enrolment guide to ensure you are on track to graduate. The courses in coloured boxes have changed for your program. Further details on the teach-out arrangements can be found in your program handbook. If at any time you wish to vary from this program plan seek prior advice from your Academic Program Advisor to ensure you remain on track.

Semester 1 Semester 2 **CHEE1000** CHEM1020 # **MATH1110** PHYS1205 Process Engineering Introductory Math for Engineering, Fundamentals of Year Principles Chemistry II Science and **Engineering Physics** Technology 1 1 OR PHYS1210 * Advanced Physics I CHEM1010 # ENGG1003 ENGG1500 **MATH1120 CHEE2825 DIRECTED ^** ELECTIVE **MATH2310** Math for Engineering, Introductory Introduction to Introduction to Chemical and Calculus of Science Chemistry I Procedural Professional Science and Renewables and Engineering Year Programming Engineering Technology 2 Engineering **Replaces MATH2470** 2 Laboratory **Replaces GENG1002** Replaces GENG1803 and ENGG1002 Replaces CHEE2820 **CHEE2325** CHEE2695 **CHEE2945 CHEE3425 CHEE2935** CHEE3825 ENGG2300 **DIRECTED ^** Thermodynamics of Energy Transfer and Particle and Resource Chemical Process Resource and Energy Chemical Engineering Engineering Fluid Year **Chemical Processes** Technologies Safety Laboratory 2 Mechanics Engineering Optimisation 3 **Replaces CHEE3320 Replaces CHEE2691 Replaces CHEE2940 Replaces CHEE2421 Replaces CHEE2931** Replaces CHEE3841 Replaces CIVL2310 CHEE4945A CHEE4975A ENGG3500 CHEE4945B **CHEE4975B CHEE3745** ENGG4500 **CHEE3735** Mass Transfer Managing Engineering Chemical Engineering Process Modelling & Design Project A Chemical Engineering Design Project B Engineering Year Processes Research A Projects Research B Separation Process Complexity 4 **Replaces CHEE3741 Replaces CHEE4940A Replaces CHEE4971A Replaces GENG3830 Replaces CHEE4940B Replaces CHEE4971B Replaces CHEE3731 Replaces PHIL3910 DIRECTED ^ CHEE4475** CHEE3325 ELECTIVE **Program Plan Key:** = Core = Directed = Elective **Dvnamic Process** Chemical Reactor Simulations and Design Year = Changes to course from 2017 onwards Control 5 = Changes to course from 2018 onwards **Replaces ELEC4400 Replaces CHEE4320** = Changes to course from 2019 onwards



See the

last page for some helpful hints

& tips!

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.

Prior to 2021, students 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 <u>Enrolling in Maths information</u>. More information in your <u>Program</u> <u>Handbook</u>. Note that due to course offerings it is recommended midyear commencing students take MATH1110 and MATH1120, and that you also consider the University's <u>Summer School</u> 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.

- * PHYS courses. PHYS1210 can only be undertaken with Program Convenor approval.
- # CHEM courses. Select either CHEM1010 (Callaghan) and CHEM1020 (Callaghan) OR CHEM1110 (Ourimbah) and CHEM1120 (Ourimbah).
- ^ Directed courses 20 units. If you have not successfully completed MATH2470 Partial Differential Equations in Engineering you must take an additional
 10 units of directed courses.
- Elective courses 20 units. Visit the <u>Course Handbook</u> to see a list of available Electives.
- ✓ It is also a requirement that students complete a total of 12 weeks of industrial experience.
- ✓ The duration of this program is 5 years full time (40 units per semester) or part time equivalent.
- The maximum time to complete this program is 10 years.
- Please note that courses marked in coloured boxes are changing for your program.

HAND BOOK Some courses have assumed knowledge and/or requisites, please refer to the individual <u>Course Handbook</u>. The <u>Program Handbook</u> 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 <u>Academic Program Advisor</u>. See the next page for a list of Directed courses

Bachelor of Engineering (Honours) (Chemical) – Directed Courses ^

Subject to change - Please refer to the program handbook for up to date information.

Choose 30 units from the following Directed courses. If you have not successfully completed MATH2470 you must take an additional 10 units of directed courses.	CHEM2410 CHEE3690 CHEE4510	Physical Chemistry Environ. Process Technology Proj Man and Innovation
Directed courses that have been removed from the program from 2021	CHEE3920	Coal and Mineral Processing <i>(No longer offered)</i>