

PROGRAM PLAN


BACHELOR OF CHEMICAL ENGINEERING (HONOURS)

PROGRAM OPTION:
Full time or Part time

START DATE:
Semester 1, 2021

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 | Semester | Course | Category | Course | Category | Course | Category | Course | Category |
|--------|------------|---|----------|--|----------|---|----------|--|----------|
| YEAR 2 | SEMESTER 1 | CHEM1010 Introduction to Chemistry I | CORE | ENGG1003 Introduction to Procedural Programming | CORE | ENGG1500 Introduction to Professional Engineering | CORE | MATH1120 Mathematics for Engineering, Science and Technology 2 | CORE |
| | SEMESTER 2 | CHEE1000 Process Engineering Principles | CORE | MATH1110 Mathematics for Engineering, Science and Technology 1 | CORE | PHYS1210* Advanced Physics I | CORE | ELECTIVE PATHWAY | |
| YEAR 3 | SEMESTER 1 | CHEE2325 Thermodynamics of Chemical Processes | CORE | CHEE2695 Energy Transfer and Technologies | CORE | CHEE2945 Particle and Resources Engineering | CORE | MATH2310 Calculus of Science and Engineering | CORE |
| | SEMESTER 2 | CHEM1020 Introductory Chemistry II | CORE | CHEE2825 Chemical and Renewables Engineering Laboratory | CORE | ENGG2300 Engineering Fluid Mechanics | CORE | ENGG2500 Sustainable Engineering Practice | CORE |
| YEAR 4 | SEMESTER 1 | CHEE3325 Chemical Reactor Design | CORE | CHEE4945A Design Project A | CORE | CHEE4975A Chemical Engineering Research A | CORE | ELECTIVE PATHWAY | |
| | SEMESTER 2 | CHEE2935 Resource and Energy Optimisation | CORE | CHEE3745 Process Modelling and Separation Processes | CORE | CHEE3825 Chemical Engineering Laboratory 2 | CORE | ELECTIVE PATHWAY | |
| YEAR 4 | SEMESTER 1 | CHEE3425 Chemical Process Safety | CORE | CHEE3735 Mass Transfer Processes | CORE | CHEE4475 Dynamic Process Simulations and Control | CORE | ENGG4500 Engineering Complexity | CORE |
| | SEMESTER 2 | CHEE4945B Design Project B | CORE | CHEE4975B Chemical Engineering Research B | CORE | ENGG4500 Engineering Complexity | CORE | ELECTIVE PATHWAY | |
| YEAR 4 | SEMESTER 1 | CHEE3425 Chemical Process Safety | CORE | CHEE3735 Mass Transfer Processes | CORE | CHEE4475 Dynamic Process Simulations and Control | CORE | ENGG3500 Managing Engineering Projects | CORE |

COMPULSORY PROFESSIONAL PRACTICE: INDUSTRIAL EXPERIENCE - 12 WEEKS

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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

Enrolment in MATH 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.

Please also note the following regarding the multi-term sequence courses research courses:

- CHEE4945A Design Project A (10 units) and CHEE4945B Design Project B (10 units) must be completed in consecutive terms.
- CHEE4975A Chemical Engineering Research A (10 units) and CHEE4975B Chemical Engineering Research B (10 units) must be completed in consecutive terms.

- **Elective Pathway** – 40 units, visit the [Program Handbook](#) for more information. Please be aware of the 120 unit maximum for 1000 level courses in your program when selecting your elective courses.
- It is also a compulsory program requirement that students complete a total of 12 weeks of [industrial experience](#).
- 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](#). 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](#).