Bachelor of Engineering (Honours) (Chemical)



Commenced in Semester 1, 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 2			
010 # etory try I	ENGG1003 Introduction to Procedural Programming	ENGG1500 Introduction to Professional Engineering	MATH1110 Math for Engineering, Science and Technology 1	CHEE1000 Process Engineering Principles	CHEM1020 # Introductory Chemistry II	MATH1120 Math for Engineering, Science and Technology 2	PHYS1205 Fundamentals of Engineering Physics OR PHYS1210 *
	Replaces GENG1002 and ENGG1002	Replaces GENG1803	Replaces option of MATH1210			Replaces option of MATH1220	Advanced Physi
325	CHEE2695	CHEE2945	MATH2310	CHEE2825	ENGG2300	DIRECTED ^	ELECTIVE
amics of rocesses	Energy Transfer and Technologies	Particle and Resource Engineering	Calculus of Science and Engineering	Chemical and Renewables Engineering	Engineering Fluid Mechanics		
HEE3320	Replaces CHEE2691	Replaces CHEE2940		Laboratory Replaces CHEE2820	Replaces CIVL2310	Replaces MATH2470	
325 Reactor gn	ENGG3500 Managing Engineering Projects	CHEE3735 Mass Transfer Processes	CHEE3425 Chemical Process Safety	CHEE2935 Resource and Energy Optimisation	CHEE3745 Process Modelling & Separation Processes	CHEE3825 Chemical Engineering Laboratory 2	DIRECTED ^
Replaces CHEE4320 Replaces GENG3830		Replaces CHEE3741	Replaces CHEE2421	Replaces CHEE2931	Replaces CHEE3731	Replaces CHEE3841	
gn Project A Chemical Engineering Dynamic Prod Research A Simulations a		CHEE4475 Dynamic Process Simulations and	ELECTIVE	CHEE4945B Design Project B	CHEE4975B Chemical Engineering Research	ENGG4500 Engineering Complexity	DIRECTED ^
EE4940A	Replaces CHEE4971A	Replaces ELEC4400		Replaces CHEE4940B	Replaces CHEE4971B	Replaces PHIL3910	
	325 amics of ocesses BEE3320	Introduction to Procedural Programming Replaces GENG1002 and ENGG1002 S25 Emics of occesses Replaces CHEE2695 Energy Transfer and Technologies Replaces CHEE2691 S25 ENGG3500 Managing Engineering Projects Replaces GENG3830 45A CHEE4975A Chemical Engineering	Introduction to Procedural Programming Replaces GENG1002 and ENGG1002 Replaces GENG1803 CHEE2695 Energy Transfer and Technologies Replaces CHEE2691 Replaces CHEE2691 Replaces CHEE2940 Replaces CHEE2691 Replaces CHEE2940 Replaces CHEE2940 CHEE3735 Mass Transfer Processes Replaces GENG3830 Replaces CHEE3741 CHEE4975A Chemical Engineering Dynamic Process	Introduction to Procedural Programming Replaces GENG1002 and ENGG1002 Replaces GENG1803 Replaces option of MATH1210 325 CHEE2695 Energy Transfer and Technologies Replaces CHEE2945 BEE3320 Replaces CHEE2691 Replaces CHEE2940 BEG3500 Managing Engineering Projects Replaces CHEE3735 Chemical Processes Safety Replaces GENG3830 Replaces CHEE3741 Replaces CHEE2421 45A CHEE4975A Chemical Engineering Research A CHEE4475 Dynamic Process Simulations and	tory Introduction to Procedural Programming Replaces GENG1002 and ENGG1500 Introduction to Processes Function and Engineering Principles 325 CHEE2695 Energy Transfer and Technologies Replaces CHEE2945 Replaces CHEE2940 Replaces CHEE2940 325 ENGG3500 CHEE2945 Replaces CHEE2940 Replaces CHEE2940 325 ENGG3500 CHEE2945 Replaces CHEE2940 Replaces CHEE2940 326 CHEE2825 Chemical and Renewables Engineering Laboratory Replaces CHEE2820 327 CHEE2825 Chemical and Engineering Laboratory Replaces CHEE2940 328 CHEE2825 Chemical and Renewables Engineering Laboratory Replaces CHEE2820 329 CHEE2945 Replaces CHEE2940 320 Replaces CHEE2691 Replaces CHEE2940 321 CHEE2825 Chemical and Renewables Engineering Laboratory Replaces CHEE2820 325 CHEE3320 Replaces CHEE2691 Replaces CHEE3735 Chemical Process Safety 325 CHEE3425 Chemical Process Safety 326 CHEE3735 Chemical Process Safety 327 CHEE3425 Chemical Process Safety 328 CHEE3735 Resource and Energy Optimisation 329 CHEE2935 Replaces CHEE2931 325 CHEE3735 CHEE3731 Replaces CHEE2421 326 CHEE2935 Replaces CHEE2931 327 CHEE2935 Replaces CHEE2931 328 CHEE3735 CHEE3735 CHEE3735 CHEE3735 CHEE2935 329 CHEE3735 CHEE2935 Replaces CHEE2935 320 CHEE3735 CHEE3735 CHEE3735 CHEE3735 Replaces CHEE2935 325 CHEE3735 CHEE3735 CHEE3735 CHEE3735 Replaces CHEE2935 326 CHEE3735 CHEE3735 CHEE2935 327 CHEE3735 CHEE3735 CHEE3735 CHEE3735 Replaces CHEE2935 328 CHEE3735 CHEE3735 CHEE3735 Replaces CHEE2935 329 CHEE3735 CHEE3735 CHEE3735 Replaces CHEE2935 329 CHEE3735 CHEE3735 CHEE3735 Replaces CHEE2935 320 CHEE3735 CHEE3735 CHEE3735 CHEE3735 Replaces CHEE2935 325 CHEE3735 CHEE3735 CHEE3735 CHEE3735 CHEE3735 325 CHEE3735 CHEE3735 CHEE3735 CHEE3735 CHEE3735 326 CHEE3735 CHEE3735 CHEE3735 CHEE3735 CHEE3735 327 CHEE3735 CHEE3735 CHEE3735 CHEE3735 CHEE3735 328 CHEE3735 CHEE3735 CHEE3735 CHEE3735 CHEE3735 329 CHEE3735 CHEE3	ENGG1003	ENGG1003 Introduction to Procedural Programming Replaces GENG1002 and ENGG1002 and ENGG1002 Replaces GENG1803 Replaces GENG1002 and ENGG1002 Replaces GENG1803 Replaces option of MATH1210 Replaces option of MATH1210 Replaces option of MATH1210 Replaces Office and Engineering Laboratory Replaces CHEE285 ENGG2300 Engineering Laboratory Replaces CHEE280 Replaces CHEE280 Replaces CHEE280 Replaces CHEE280 Replaces CHEE2940 Replaces CHEE280 Replaces CHEE381 Replaces CHEE281 Replaces CHEE381 Replaces CHEE381

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 Enrolling in Maths information. More information 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.

- * 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 Course Handbook to see a list of available Electives.
- ✓ It is also a requirement that students complete a total of 12 weeks of industrial experience. More info here.
- ✓ 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.
- ✓ Please note that courses marked in coloured boxes are changing for your program.





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 Academic Program Advisor.

Information correct as of 2 November 2020 and subject to change. Program Code: 12284 CRICOS Code: 018788M CRICOS Code: 00109J

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

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