Bachelor of Engineering (Honours) (Environmental)

GEOTECHNICAL ENGINEERING MINOR



Commenced in 2015 and 2016 Studying at Callaghan



This Program Plan is an enrolment guide to ensure you are on track to graduate. The courses in orange boxes are changing 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.

See the last page for hints & tips!



Semester 1

Year

1 CHEM1010 * ENGG1500 **SURV1200 MATH1120** Introduction to Introductory Mathematics for Introduction to Year Chemistry I Professional Engineering, Science Surveying 2 Engineering and Technology 2 Replaces option of Replaces SURV1110 MATH1210 **OR** MATH1220 Replaces GENG1803 ENVS2002 CHEM2110 CIVL2050 **MATH2310** Environmental Applied Analytical Engineering Calculus of Science Year Legislation & Planning Chemistry Computations and and Engineering Probability Replaces CHEM2610 **CHEE3690** CIVL3330 CIVL3280 **ELECTIVE** Year Environ. Process Hydrology Geomechanics 2 Technology Replaces CIVL4330 **ENGG3500** CIVL4640 # CIVL4591 CIVL4201 Managing Engineering Environmental Project S1 Geotechnical and Year Projects Engineering Project 1 Geoenvironmental Replaces GENG3830 Engineering

Semester 2

= Core

CRICOS Code: 011012F

CIVL1100 Introduction to Engineering Mechanics Replaces GENG1001	ENGG1003 Introduction to Procedural Programming Replaces GENG1002 pre-2017, ENGG1002 pre-2021 In 2021 changed from Sem 2 to Sem 1	MATH1110 Mathematics for Engineering, Science and Technology 1 Replaces option of MATH1110 OR MATH1210	BIOL1002 Organisms to Ecosystems
CHEM1020 * Introductory Chemistry II	CIVL2280 Geomechanics 1	SURV3650 GIS and Remote Sensing Replaces SURV2650	ELECTIVE
ENGG2300 Engineering Fluid Mechanics Replaces CIVL2310	CIVL3410 Hydrobiological Modelling	CIVL3431 Land Surface Process and Management	ENGG4500 Engineering Complexity Replaces PHIL3910
CIVL3470 Contaminant Hydrogeology	CIVL4450 Water Engineering	CIVL4601 Environmental Engineering Project 2	CIVL3840 Advanced Analysis for Design Replaces CIVL4830

Information correct as of 1 December 2020 and subject to change.

Program Code: 12298

= Elective = Minor = Changes from 2017 onwards

= Changes from 2019 onwards

CRICOS Provider: 001091

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 – 250 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.

- * CHEM courses 20 units. Select both CHEM1010 and CHEM1020 (Callaghan) OR CHEM1110 and CHEM1120 (Ourimbah).
- # Students may choose to complete either CIVL4640 Project S1 (Semester 1) or CIVL4660 Project S2 (Semester 2), whichever best fits their program. Course content and assessment are identical.
- ✓ Minor 50 units (10 units in Year 1, 10 in Year 3, 20 units in Year 4, 10 units in Year 5).
- ✓ Electives 20 units. Visit the <u>Course Handbook</u> to see a list of available Electives.
- **✓** Refer to the transition document in the Program Handbook for further information
- It is also a 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 <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>.

Information correct as of 1 December 2020 and subject to change. Program Code: 12298 CRICOS Code: 011012E CRICOS Provider: 00109J