Bachelor of Engineering (Honours) (Environmental)

GEOTECHNICAL ENGINEERING MINOR

Commenced in 2015 and 2016 Studying at Callaghan

Semester 1



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.

ENGG1500 CHEM1010 * **SURV1200 MATH1110** CHEM1020 ' **CIVL1100 ENGG1003 MATH1120** Introduction to Introductory Introduction to Mathematics for Introductory Fundamentals of Introduction to Mathematics for Professional Chemistry I Surveying Engineering, Science Chemistry II Engineering Procedural Engineering, Science Year Engineering and Technology 1 Mechanics Programming and Technology 2 1 Replaces option of Replaces GENG1002 pre-Replaces option of Replaces GENG1803 **Replaces GENG1001** Replaces SURV1110 2017. ENGG1002 pre-2021 MATH1110 **OR** MATH1210 **OR** In 2021 changed from Sem 2 to MATH1210 MATH1220 Sem 1 **CHEM2110 CIVL2050 MATH2310** ELECTIVE **ENGG2300 CIVL2280** SURV3650 **BIOL1002** Applied Analytical Engineering Calculus of Science **Engineering Fluid** Geomechanics 1 GIS and Remote Organisms to Year Chemistry Computations and and Engineering Mechanics Sensing Ecosystems 2 Probability **Replaces CIVL2310 Replaces CHEM2610** Replaces SURV2650 **ENVS2002 CHEE3690** CIVL3330 **CIVL3280 CIVL3410** CIVL3431 CIVL3470 CIVL4450 Year Environmental Environ. Process Hvdrology Geomechanics 2 Hydrobiological Land Surface Process Contaminant Water Engineering 3 Legislation & Planning Technology **Replaces CIVL4330** Modelling and Management Hydrogeology ENGG3500 CIVL4591 CIVL4201 **ELECTIVE** CIVL4601 CIVL4660 # **CIVL3840 ENGG4500** Year Managing Engineering Environmental Geotechnical and Environmental Project S2 Advanced Analysis for Engineering 4 Projects **Engineering Project 1** Geoenvironmental **Engineering Project 2** Design Complexity Replaces GENG3830 **Replaces CIVL4830 Replaces PHIL3910** Engineering **Program Plan Key:** = Changes from 2017 onwards = Changes from 2019 onwards = Core = Minor = Elective

Semester 2

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 – 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 <u>Enrolling in Maths information</u>. More information is in your <u>Program</u> <u>Handbook</u>.

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 2, 10 in Year 3 and 30 units in Year 4).
- Electives 20 units. Visit the <u>Course Handbook</u> to see a list of available Electives.
- *Refer to the transition document in the <i>Program Handbook for further information*
- It is also a requirement that students complete a total of 12 weeks of <u>industrial experience</u>.
- 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.

The Program Handbook 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>.