

PROGRAM PLAN

BACHELOR OF CIVIL ENGINEERING (HONOURS)/ BACHELOR OF ENVIRONMENTAL 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	DESCRIPTION	CATEGORY
YEAR 1	SEMESTER 1	ENGG1500	Introduction to Professional Engineering	CORE
		MATH1110*	Mathematics for Engineering, Science and Technology 1	CORE
		ENGG1003	Introduction to Procedural Programming	CORE
		SURV1200	Introduction to Surveying	CORE
YEAR 2	SEMESTER 1	CHEM1010	Introductory Chemistry I	CORE
		ENGG2100	Engineering Risk and Uncertainty	CORE
		CIVL2060	Numerical Methods	CORE
		CIVL2720	Transportation Engineering and Design	CORE
YEAR 3	SEMESTER 1	CHEM2110	Analytical Chemistry	CORE
		CIVL2130	Theory of Structures 1	CORE
		CIVL3280	Geomechanics 2	CORE
		CIVL3330	Hydrology	CORE
YEAR 4	SEMESTER 1	ENVS2002	Environmental Legislation & Planning	CORE
		CIVL3170	Steel Design	CORE
		CIVL3180	Theory of Structures 2	CORE
		ENGG3500	Managing Engineering Projects	CORE
YEAR 5	SEMESTER 1	CHEE3690	Environ. Process Technology	CORE
		CIVL4201	Geotechnical and Geoenvironmental Engineering	CORE
		CIVL4591	Environmental Engineering Project 1	CORE
		CIVL4640 [^]	Project S1	CORE
YEAR 2	SEMESTER 2	CIVL1100	Fundamentals of Engineering Mechanics	CORE
		CIVL1200	Earth Systems	CORE
		PHYS1205**	Fundamentals of Engineering Physics	CORE
		MATH1120*	Mathematics for Engineering, Science and Technology 2	CORE
YEAR 2	SEMESTER 2	CHEM1020	Introductory Chemistry II	CORE
		CIVL2282	Introduction to Geomechanics	CORE
		ENGG2300	Engineering Fluid Mechanics	CORE
		ENGG2500	Sustainable Engineering Practice	CORE
YEAR 2	SEMESTER 2	BIOL1002	Organisms to Ecosystems	CORE
		CIVL2240	Civil Engineering Materials	CORE
		CIVL3470	Contaminant Hydrogeology	CORE
		SURV3650	Spatial Data Systems and Remote Sensing	CORE
YEAR 2	SEMESTER 2	CIVL3160	Reinforced Concrete Design	CORE
		CIVL3410	Hydrobiological Modelling	CORE
		CIVL3840	Advanced Analysis for Design	CORE
		CIVL4450	Water Engineering	CORE
YEAR 2	SEMESTER 2	Civil Engineering Design#		CORE
		Civil Engineering Design#		CORE
		CIVL3431	Land Surface Process and Management	CORE
		ENGG4500	Engineering Complexity	CORE

COMPULSORY PROFESSIONAL PRACTICE INDUSTRIAL EXPERIENCE 12 WEEKS

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To be eligible to graduate make sure you have completed 400 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core courses – 400 units including:
 - * Maths courses
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 PHYS1210 Advanced Physics 1 in lieu of PHYS1205 with Program Convenor approval.
 - ^ Project Core Course – 10 units. Students may choose either CIVL4640 Project S1 (Semester 1) **OR** CIVL4660 Project S2 (Semester 2), whichever best fits their program. Course content and assessment are identical.
 - # Civil Engineering Design Core Course – 20 units. (See next page). More information in your [Program Handbook](#).
- Students must not exceed 120 units at 1000 level for either degree in this program.
- 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 12 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](#).

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CIVIL ENGINEERING DESIGN CORE COURSES

Complete 20 units from the following Civil Engineering Design Core Courses:

CIVL4521 Structural Engineering Project

CIVL4541 Water Engineering Project

CIVL4571 Geotechnical Engineering Project