

PROGRAM PLAN



BACHELOR OF CIVIL ENGINEERING (HONOURS)/ BACHELOR OF SURVEYING (HONOURS)

PROGRAM OPTION:
Full time or Part time

START DATE:
Semester 2, 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 1

SEMESTER 2	CIVL1100 Fundamentals of Engineering Mechanics	CIVL1200 Earth Systems	MATH1110 Mathematics for Engineering, Science and Technology 1	PHYS1205* Fundamentals of Engineering Physics
	CORE	CORE	CORE	CORE

YEAR 2

SEMESTER 1	ENGG1003 Introduction to Procedural Programming	ENGG1500 Introduction to Professional Engineering	MATH1120 Mathematics for Engineering, Science and Technology 2	SURV1200 Introduction to Surveying
	CORE	CORE	CORE	CORE

SEMESTER 2	CIVL2240 Civil Engineering Materials	CIVL2282 Introduction to Geomechanics	ENGG2300 Engineering Fluid Mechanics	ENGG2500 Sustainable Engineering Practice
	CORE	CORE	CORE	CORE

YEAR 3

SEMESTER 1	CIVL2060 Numerical Methods	CIVL2130 Theory of Structures 1	ENGG2100 Engineering Risk and Uncertainty	SURV2210 Engineering Surveying
	CORE	CORE	CORE	CORE

SEMESTER 2	CIVL3840 Advanced Analysis for Design	SURV2220 Surveying Methods and Equipment	SURV2230 Surveying Techniques and Computations	SURV3650 GIS and Remote Sensing
	CORE	CORE	CORE	CORE

YEAR 4

SEMESTER 1	CIVL3280 Geomechanics 2	CIVL3330 Hydrology	SURV3350 Analysis of Observations	SURV3510 Geodesy 1
	CORE	CORE	CORE	CORE

SEMESTER 2	CIVL3160 Reinforced Concrete Design	CIVL4450 Water Engineering	SURV3610 Photogrammetry	SURV4730 Town Planning
	CORE	CORE	CORE	CORE

YEAR 4

SEMESTER 1	CIVL3170 Steel Design	CIVL3180 Theory of Structures 2	CIVL4201 Geotechnical and Geoenvironmental Engineering	LEGL2009 Survey and Engineering Law
	CORE	CORE	CORE	CORE

SEMESTER 2	Civil Engineering Design#	Civil Engineering Design#	CIVL4660^ Project 2	SURV3930 Land Boundary Definition
	CORE	CORE	CORE	CORE

YEAR 5

SEMESTER 1	CIVL2720 Transportation Engineering and Design	ENGG3500 Managing Engineering Projects	SURV4110 Industrial Surveying	SURV4410 Astronomy and Satellite Positioning
	CORE	CORE	CORE	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 – 370 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](#). 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.
 - * 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 **OR** CIVL4660 Project S2, whichever best fits their program. Course content and assessment are identical.
 - # Civil Engineering Design Core Course – 20 units. More information in your [Program Handbook](#).
- Students must not exceed 120 units at 1000 level 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