PROGRAM PLAN
BACHELOR OF CIVIL 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 1	SEMESTER 1	**ENGG1003** Introduction to Procedural Programming — CORE	**ENGG1500** Introduction to Professional Engineering — CORE	**MATH1110** Mathematics for Engineering, Science and Technology 1 — CORE	**SURV1200** Introduction to Surveying — CORE
	SEMESTER 2	**CIVL1100** Fundamentals of Engineering Mechanics — CORE	**CIVL1200** Earth Systems — CORE	**MATH1120** Mathematics for Engineering, Science and Technology 2 — CORE	**PHYS1205*** Fundamentals of Engineering Physics — CORE
YEAR 2	SEMESTER 1	**CIVL2060** Numerical Methods — CORE	**CIVL2130** Theory of Structures 1 — CORE	**CIVL2720** Transportation Engineering and Design — CORE	**ENGG2100** Engineering Risk and Uncertainty — CORE
	SEMESTER 2	**CIVL2240** Civil Engineering Materials — CORE	**CIVL2282** Introduction to Geomechanics — CORE	**ENGG2300** Engineering Fluid Mechanics — CORE	**ENGG2500** Sustainable Engineering Practice — CORE
YEAR 3	SEMESTER 1	**CIVL3170** Steel Design — CORE	**CIVL3180** Theory of Structures 2 — CORE	**CIVL3280** Geomechanics 2 — CORE	**CIVL3330** Hydrology — CORE
	SEMESTER 2	**CIVL3160** Reinforced Concrete Design — CORE	**CIVL3840** Advanced Analysis for Design — CORE	**CIVL4450** Water Engineering — CORE	**ELECTIVE PATHWAY**
YEAR 4	SEMESTER 1	**CIVL4201** Geotechnical and Geoenvironmental Engineering — CORE	**CIVL4640^** Project S1 — CORE	**ELECTIVE PATHWAY**	**ENGG3500** Managing Engineering Projects — CORE
	SEMESTER 2	**Civil Engineering Design#** — CORE	**Civil Engineering Design#** — CORE	**ELECTIVE PATHWAY**	**ELECTIVE PATHWAY**

COMPULSORY PROFESSIONAL PRACTICE: INDUSTRIAL EXPERIENCE 12 WEEKS

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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
  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.

  ^ Students may choose either CIVL4640 Project S1 **OR** CIVL4660 Project S2, whichever best fits their program. Students may also choose to utilise an elective course to complete both Project S1 and Project S2. This option is subject to supervision availability Please contact your Program Convenor if you wish to discuss this option.

  # Civil Engineering Design Core Course – 20 units. More information in your **Program Handbook**.
- Elective Pathway – 40 units, visit the **Program Handbook** for more information.
  Please note, completion of **MATH1002** counts as 10 units of electives.
- Students must not exceed 120 units at 1000 level in this program.
- At least 40 units must be taken at each level from the 2000 level and above 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 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**. 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