Overview

The Civil Engineering stream belongs to the proposed 0.5 year (24UOC) Graduate Certificate of Engineering Science program (program code 7320). The program is designed to develop and enhance career opportunities for graduate engineers, including cross-training, re-training and advanced level technical specialisations.

ENTRY REQUIREMENTS

In order to be admitted to the program a student would be expected to hold a 4-year Bachelor of Engineering in a relevant discipline or an equivalent qualification from a recognised university or tertiary institution.

For entry details, please click here.

Those without such a qualification are required to argue their prior learning is equivalent to this qualification. For example, a 3- or 4-year Bachelor of Engineering or Science combined with relevant discipline experience (exact positions and roles that will be considered relevant to be decided by each specialisation) may be recognised.
Faculty
Faculty of Engineering

School
School of Civil and Environmental Engineering

Study Level
Postgraduate

Minimum Units of Credit
24

Specialisation Type
Specialisation
Available in Program(s)

Program(s) in which this specialisation is available

Graduate Certificate in Engineering Science - GradCertEngSc

7320 Engineering Science
Faculty: Faculty of Engineering
Campus: Kensington
Units of Credit: 24
Typical Duration: 0.7 Years
**Specialisation Structure**

Students must complete 24 UOC.

**Advanced Disciplinary Knowledge Courses**

Students may choose up to 24 UOC courses from any postgraduate specialisation offered from the School of Civil and Environmental Engineering. These specialisations include: Environmental Engineering, Transportation Engineering, Geotechnical Engineering & Engineering Geology, Project Management, Structural Engineering, Water, Wastewater and Waste Engineering, Water Resources (includes coastal engineering courses).

any level 9 Civil and Environmental Engineering course

**Disciplinary Knowledge**

Students may choose up to 24 UOC of Disciplinary Knowledge courses.

- **CVEN4101** | 6 UOC
  Problem Solving for Engineers

- **CVEN4102** | 6 UOC
  Operations and Projects

- **CVEN4103** | 6 UOC
  Engineering Contracts

- **CVEN4104** | 6 UOC
  Sustainability in Construction

- **CVEN4201** | 6 UOC
  Rock and Slope Engineering

- **CVEN4202** | 6 UOC
  Advanced Topics in Geotechnical Engineering
CVEN4204  |  6 UOC
Ground Improvement and Monitoring Techniques

CVEN4301  |  6 UOC
Advanced Concrete Structures

CVEN4308  |  6 UOC
Structural Dynamics

CVEN4310  |  6 UOC
Deformation Monitoring Surveys

CVEN4402  |  6 UOC
Transport Systems - Part 1: Network Analysis

CVEN4507  |  6 UOC
Advanced Water Engineering

CVEN9898  |  6 UOC
Fundamentals of Sustainable Infrastructure

**Foundational Disciplinary Knowledge**

At the discretion of the Program or Stream Authority, students may be required to develop their foundational disciplinary knowledge through enrolment in undergraduate level courses that are deemed appropriate by the Program or Stream Authority. Students will be granted credit towards the program for the satisfactory completion of these courses up to a maximum of 12UOC.

**Enrolment Disclaimer**

Unless advised otherwise by your program authority, you should follow the rules for the handbook for the year you commenced your program. You are also responsible for ensuring you enrol in courses according to your program requirements. myUNSW enrolment checks that you have met enrolment requirements such as pre-requisites for individual courses but not that a course will count towards your program requirements.
Additional Information

Recognition of Prior Learning (RPL)

A student may apply to the Program or Stream Authority for advanced standing or exemption as per the UNSW RPL Policy and Procedures. Program or Stream Authorities may grant up to 12UOC of advanced standing or exemption if they consider the student has prior learning (formal, informal or non-formal) where it can be demonstrated that the student has achieved equivalent learning outcomes to the particular course(s). Application for advanced standing or exemption would require substantiating evidence including documents such as academic records, continuing professional education, professional registration and statements of service from the employer.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions
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Authorised by Deputy Vice-Chancellor (Academic)
CRICOS Provider Code 00098G
ABN: 57 195 873 179