



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

CREATE CHANGE

Graduate Certificate in Engineering Science

(Civil Engineering)



Graduate Certificate in Engineering Science (Civil Engineering) - Study Plan

This study plan is a guide only for students commencing the [Graduate Certificate in Engineering Science \(Civil Engineering\)](#) in 2023. Please note that all course selections must adhere to the program course list outlined at [UQ Courses and Programs](#). If you have any questions or concerns regarding your course selections, please speak with an [Academic Advisor](#) in the School of Civil Engineering.

8 units for one Field of Study from GCEngSc Fields of Study Discipline Elective Courses

February 2023 Commencement

Electives

Course Code	Course Title	Sem	Notes
Civil Engineering			
CIVL6210	Dam Engineering	2	
CIVL6215	Ground Improvement	1	
CIVL6250	Underground Structures	2	Starts in 2024
CIVL6415	Traffic Analysis and Simulation	2	
CIVL7131	Urban Hydrology	1	
CIVL7315	Advanced Concrete Structures and Concrete Technology	2	
CIVL7360	Computational Design and Digital Workflows	2	
CIVL7415	Spatial and Quantitative Methods for Transport Data Analytics	1	
CIVL7505	Research Methods for Civil Engineers	2	
FIRE7600	Introduction to Fire Safety Engineering	1	
FIRE7620	Fire Dynamics	2	
FIRE7660	Structural Fire Engineering	1	