

Bachelor of Engineering (Honours)

Civil Engineering

Geotechnical Engineering Major

Undergraduate Program - Consists of 64 units

Suggested Study Plans from **2025** Commencement Onwards



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

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Program and Course requirements

For the **Bachelor of Engineering (Honours)** full program and course requirements, [click here](#). Make sure to check your program's rules to ensure you are compliant with requirements.

Prerequisite Courses

Students are expected to be aware if a course has prerequisites and must have successfully completed any required prerequisites before enrolling. A prerequisite course provides the foundational knowledge needed to progress to the next course and may be high school subjects or university-level study/courses.

Prerequisites are listed on the course profile and the course page on the [Programs and Courses website](#).

Electives

Depending on your program, you may need to complete compulsory and elective courses.

Electives are courses you can choose, while compulsory courses are mandatory courses that you must study. You must successfully complete all the required units of elective and compulsory courses to meet the program requirements. Your program rules outline how many electives you can study and the types of electives you can choose from.

Search [Programs and Courses website](#) for your program to confirm program rules and elective options.

Academic Advice

Academic advisors provide specialist help in course selection and can look at your individual study history to make personalised recommendations on your study plan.

If you need assistance with your program, you can [seek Academic Advice](#).

Additional Information

Course profiles are underlined and hyperlinked to their relevant course page which can be accessed by clicking the underlined text.

Students must follow the [program rules and requirements](#) listed on the my.UQ website. Future course offerings are subject to change. [Seek academic advice](#) if you are undertaking a dual degree, have any questions or if you fail any courses.

Published: July 2025

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Suggested Study Plan from Semester 1, 2025 Commencement Onwards

The following is a colour reference guide, including notes around course offerings and units:

Core Courses	Specialisation	Program Electives
General Electives	Major	



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	Course offered in both Semester 1 & 2
	This course does not consist of 2 units
	Elective may be substituted for another Elective type as per Program requirements

YEAR 1				
Sem 1 Feb	ENGG1100 Professional Engineering	MATH1051 Calculus and Linear Algebra I	ENGG1700 Statics and Materials	GENERAL ELECTIVE OR PROGRAM ELECTIVE
Sem 2 July	ENGG1001 Programming for Engineers	MATH1052 Multivariate Calc & Ordinary Differential Equations	PROGRAM ELECTIVE	GENERAL ELECTIVE OR PROGRAM ELECTIVE

YEAR 2				
Sem 1 Feb	CIVL2131 Environmental Fluid Mechanics	CIVL2135 Introduction to Environmental Engineering	CIVL2330 Structural Mechanics	CIVL2530 Statistics and Data Analysis
Sem 2 July	CIVL2210 Soil Mechanics	CIVL2420 Fundamentals of Transportation Engineering	CIVL3155 Hydrology and Free Surface Flows	CIVL3360 Reinforced Concrete Design

YEAR 3				
Sem 1 Feb	CIVL3210 Geotechnical Engineering	CIVL3530 Data Analytics in Civil Engineering	CIVL4270 Geotechnical Investigation	PROGRAM ELECTIVE
Sem 2 July	CIVL3520 Project Management and Professional Practice	ADVANCED ELECTIVE	CIVL3220 Rock Mechanics	PROGRAM ELECTIVE

YEAR 4				
Sem 1 Feb	CIVL4170 Risk Analysis in Civil Engineering	CIVL4604 ² Research Thesis	CIVL6215 Ground Improvement	BREADTH ELECTIVE
Sem 2 July	CIVL4516 ¹ OR CIVL4518 ¹		CIVL4230 Advanced Soil Mechanics	ADVANCED ELECTIVE

NOTES				
¹ CIVL4516: Integrated Design for the Natural Environment, CIVL4518: Integrated Design for the Built Environment				
² Can be substituted for a 2-unit CIVL4600: Research Project and an additional Advanced Elective				

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Suggested Study Plan from **Semester 2, 2025** Commencement Onwards

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Core Courses	Specialisation	Program Electives
General Electives	Major	



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	Course offered in both Semester 1 & 2
	This course does not consist of 2 units
	Elective may be substituted for another Elective type as per Program requirements

YEAR 1				
Sem 2 July	ENGG1100 Professional Engineering	MATH1051 Calculus and Linear Algebra I	ENGG1700 Statics and Materials	GENERAL ELECTIVE OR PROGRAM ELECTIVE
Sem 1 Feb	ENGG1001 Programming for Engineers	MATH1052 Multivariate Calc & Ordinary Differential Equations	PROGRAM ELECTIVE	GENERAL ELECTIVE OR PROGRAM ELECTIVE

YEAR 2				
Sem 2 July	CIVL2210 Soil Mechanics	CIVL2420 Fundamentals of Transportation Engineering	CIVL3155 Hydrology and Free Surface Flows	CIVL3360 Reinforced Concrete Design
Sem 1 Feb	CIVL2131 Environmental Fluid Mechanics	CIVL2135 Introduction to Environmental Engineering	CIVL2330 Structural Mechanics	CIVL2530 Statistics and Data Analysis

YEAR 3				
Sem 2 July	CIVL3520 Project Management and Professional Practice	ADVANCED ELECTIVE	CIVL3220 Rock Mechanics	PROGRAM ELECTIVE
Sem 1 Feb	CIVL3210 Geotechnical Engineering	CIVL3530 Data Analytics in Civil Engineering	CIVL4270 Geotechnical Investigation	PROGRAM ELECTIVE

YEAR 4				
Sem 2 July	CIVL4516 ¹ CIVL4518 ¹	CIVL4606 ² Research Thesis	CIVL4230 Advanced Soil Mechanics	BREADTH ELECTIVE
Sem 1 Feb	CIVL4170 Risk Analysis in Civil Engineering		CIVL6215 Ground Improvement	ADVANCED ELECTIVE

NOTES				
¹ CIVL4516: Integrated Design for the Natural Environment, CIVL4518: Integrated Design for the Built Environment				
² Can be substituted for a 2-unit <u>CIVL4600: Research Project</u> and an additional <u>Advanced Elective</u>				

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