Bachelor of Engineering (Honours)

Civil Engineering
Environmental Engineering Major

Undergraduate Program - Consists of 64 units
Suggested Study Plans from 2025 Commencement Onwards

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA
CREATE CHANGE

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.

CRICOS: 00025B TEQSA: PRV12080

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

Core Courses | Specialisation | Program Electives | General Electives | Major

1 & 2 — Course offered in both Semester 1 & 2

X units — 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 (1 & 2)	**MATH1051** Calculus and Linear Algebra I (1 & 2)	**ENGG1700** Statics and Materials (1 & 2)	**GENERAL ELECTIVE** (1 & 2) OR **PROGRAM ELECTIVE** (1 & 2)
Sem 2 July	**ENGG1001** Programming for Engineers (1 & 2)	**MATH1052** Multivariate Calc & Ordinary Differential Equations (1 & 2)	**PROGRAM ELECTIVE** (1 & 2)	**GENERAL ELECTIVE** (1 & 2) OR **PROGRAM ELECTIVE** (1 & 2)

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	**ENVE3160** Environmental Phenomena	**PROGRAM ELECTIVE**
Sem 2 July	**CIVL3520** Project Management and Professional Practice	**ADVANCED ELECTIVE**	**ENVE2501** Environmental Systems	**PROGRAM ELECTIVE**

YEAR 4

Sem 1 Feb	**CIVL4170** Risk Analysis in Civil Engineering	**CIVL4604**[2] Research Thesis (4 units)	**ENVE4610** Engineering the Circular Economy	**BREADTH ELECTIVE** !
Sem 2 July	**CIVL4516**[1] OR **CIVL4518**[1]		**ENVE3150** Environmental Systems Dynamics and Modelling	**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

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.

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Bachelor of Engineering (Honours)

Civil Engineering
Environmental Engineering Major

Undergraduate Program - Consists of 64 units
Suggested Study Plan from **Semester 2, 2025** Commencement Onwards

The University Of Queensland
AUSTRALIA

CREATE CHANGE

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Core Courses | Specialisation | Program Electives | General Electives | Major

1 & 2 — Course offered in both Semester 1 & 2

X units — 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 (1 & 2)	MATH1051 Calculus and Linear Algebra I (1 & 2)	ENGG1700 Statics and Materials (1 & 2)	GENERAL ELECTIVE (1 & 2) OR PROGRAM ELECTIVE (1 & 2)
Sem 1 Feb	ENGG1001 Programming for Engineers (1 & 2)	MATH1052 Multivariate Calc & Ordinary Differential Equations (1 & 2)	PROGRAM ELECTIVE (1 & 2)	GENERAL ELECTIVE (1 & 2) OR PROGRAM ELECTIVE (1 & 2)

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	ENVE2501 Environmental Systems	PROGRAM ELECTIVE
Sem 1 Feb	CIVL3210 Geotechnical Engineering	CIVL3530 Data Analytics in Civil Engineering	ENVE3160 Environmental Phenomena	PROGRAM ELECTIVE

YEAR 4

Sem 2 July	CIVL4516[1] OR CIVL4518[1]	CIVL4606[2] Research Thesis (4 units)	ENVE3150 Environmental Systems Dynamics and Modelling	BREADTH ELECTIVE !
Sem 1 Feb	CIVL4170 Risk Analysis in Civil Engineering		ENVE4610 Engineering the Circular Economy	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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