Bachelor of Engineering (Honours)

Civil Engineering
Water and Marine 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 University Of Queensland
AUSTRALIA

CREATE CHANGE

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	**CIVL4340** Wind Engineering	**PROGRAM ELECTIVE**
Sem 2 July	**CIVL3520** Project Management and Professional Practice	**ADVANCED ELECTIVE**	**CIVL6111** Ocean, Coastal and Estuarine Engineering	**PROGRAM ELECTIVE**

YEAR 4

Sem 1 Feb	**CIVL4170** Risk Analysis in Civil Engineering	**CIVL4604**[2] Research Thesis (4 units)	**CIVL6121** Environmental Hydraulics and Flood Management	**ADVANCED ELECTIVE** !
Sem 2 July	**CIVL4516**[1] OR **CIVL4518**[1]		**CIVL6112** Hydro and Marine Power Renewable Energy Systems	**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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CRICOS: 00025B TEQSA: PRV12080

Bachelor of Engineering (Honours)

Civil Engineering
Water and Marine Engineering Major

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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**	**CIVL6111** Ocean, Coastal and Estuarine Engineering	**PROGRAM ELECTIVE**
Sem 1 Feb	**CIVL3210** Geotechnical Engineering	**CIVL3530** Data Analytics in Civil Engineering	**CIVL4340** Wind Engineering	**PROGRAM ELECTIVE**

YEAR 4

Sem 2 July	**CIVL4516**[1] OR **CIVL4518**[1]	**CIVL4606**[2] Research Thesis (4 units)	**CIVL6112** Hydro and Marine Power Renewable Energy Systems	**ADVANCED ELECTIVE** !
Sem 1 Feb	**CIVL4170** Risk Analysis in Civil Engineering		**CIVL6121** Environmental Hydraulics and Flood Management	**ADVANCED ELECTIVE** !

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