# Bachelor of Engineering (Honours)

## Civil Engineering
## Transport 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

# Bachelor of Engineering (Honours)

## Civil Engineering
## Transport Engineering Major

Undergraduate Program - Consists of 64 units
Suggested Study Plan from **Semester 1, 2025** Commencement Onwards

THE UNIVERSITY OF QUEENSLAND
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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

### 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 | CIVL3430 Sustainable Transport Engineering | ADVANCED ELECTIVE |
| Sem 2 July | CIVL3520 Project Management and Professional Practice | ADVANCED ELECTIVE | CIVL4450 Traffic Flow Theory and Emerging Technologies | CIVL4460 Highway Geometric Design |

### YEAR 4

| | | | | |
|---|---|---|---|---|
| Sem 1 Feb | CIVL4170 Risk Analysis in Civil Engineering | CIVL4604[2] Research Thesis (4 units) | CIVL6410 Transport Network Modelling | ADVANCED ELECTIVE |
| Sem 2 July | CIVL4516[1] OR CIVL4518[1] | | CIVL6415 Traffic Analysis and Simulation | 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
## Transport Engineering Major

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

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

| 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 | CIVL4450 Traffic Flow Theory and Emerging Technologies | CIVL4460 Highway Geometric Design |
| Sem 1 Feb | CIVL3210 Geotechnical Engineering | CIVL3530 Data Analytics in Civil Engineering | CIVL3430 Sustainable Transport Engineering | ADVANCED ELECTIVE |

| YEAR 4 | | | | |
|---|---|---|---|---|
| Sem 2 July | CIVL4516[1] OR CIVL4518[1] | CIVL4606[2] Research Thesis (4 units) | CIVL6415 Traffic Analysis and Simulation | ADVANCED ELECTIVE |
| Sem 1 Feb | CIVL4170 Risk Analysis in Civil Engineering | | CIVL6410 Transport Network Modelling | ADVANCED ELECTIVE |

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