

# Bachelor of Engineering (Honours) and Master of Engineering

## Civil Engineering

Undergraduate Program - Consists of 80 units

Suggested Study Plans from 2025 Commencement Onwards



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## Program and Course requirements

For the **Bachelor of Engineering (Honours) and Master of Engineering** 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

# Bachelor of Engineering (Honours) and Master of Engineering

## Civil Engineering (Industry Placement)

Undergraduate Program - Consists of 80 units

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      | Field of Study | Program Electives |
| General Electives |                |                   |



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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<br>Feb  | <b>ENGG1100</b><br>Professional Engineering  | <b>MATH1051</b><br>Calculus and Linear Algebra I                       | <b>ENGG1700</b><br>Statics and Materials                 | <b>GENERAL ELECTIVE</b><br>OR<br><b>PROGRAM ELECTIVE</b> |
| Sem 2<br>July | <b>ENGG1001</b><br>Programming for Engineers | <b>MATH1052</b><br>Multivariate Calc & Ordinary Differential Equations | <b>GENERAL ELECTIVE</b><br>OR<br><b>PROGRAM ELECTIVE</b> | <b>GENERAL ELECTIVE</b><br>OR<br><b>PROGRAM ELECTIVE</b> |

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

| YEAR 3        |                                                                 |                                                        |                             |                             |
|---------------|-----------------------------------------------------------------|--------------------------------------------------------|-----------------------------|-----------------------------|
| Sem 1<br>Feb  | <b>CIVL3210</b><br>Geotechnical Engineering                     | <b>CIVL3530</b><br>Data Analytics in Civil Engineering | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME ELECTIVE</b> |
| Sem 2<br>July | <b>CIVL3520</b><br>Project Management and Professional Practice | <b>BE(Hons)/ME ELECTIVE</b>                            | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME ELECTIVE</b> |

| YEAR 4        |                                                                             |                             |                             |                             |
|---------------|-----------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|
| Sem 1<br>Feb  | <b>CIVL4170</b><br>Risk Analysis in Civil Engineering                       | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME ELECTIVE</b> |
| Sem 2<br>July | <b>ENGG7292<sup>1</sup></b><br>Engineering Placement B <span>8 units</span> |                             |                             |                             |

| YEAR 5        |                                                            |                             |                             |                                     |
|---------------|------------------------------------------------------------|-----------------------------|-----------------------------|-------------------------------------|
| Sem 1<br>Feb  | <b>BE(Hons)/ME ELECTIVE</b>                                | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME MASTERS ELECTIVE</b> |
| Sem 2<br>July | <b>CIVL4516<sup>2</sup></b> OR <b>CIVL4518<sup>2</sup></b> | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME MASTERS ELECTIVE</b> |

| NOTES                                                                                                                                   |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| <sup>1</sup> May choose to do a Research Thesis across two semesters instead, starting in; Semester 1: CIVL7500 or Semester 2: CIVL7501 |  |  |  |  |
| <sup>2</sup> CIVL4516: Integrated Design for the Natural Environment, CIVL4518: Integrated Design for the Built Environment             |  |  |  |  |

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# Bachelor of Engineering (Honours) and Master of Engineering

## Civil Engineering (Industry Placement)

Undergraduate Program - Consists of 80 units

Suggested Study Plan from Semester 2, 2025 Commencement Onwards

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

|                   |                |                   |
|-------------------|----------------|-------------------|
| Core Courses      | Field of Study | Program Electives |
| General Electives |                |                   |



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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<br>July | <b>ENGG1100</b><br>Professional Engineering  | <b>MATH1051</b><br>Calculus and Linear Algebra I                       | <b>ENGG1700</b><br>Statics and Materials                 | <b>GENERAL ELECTIVE</b><br>OR<br><b>PROGRAM ELECTIVE</b> |
| Sem 1<br>Feb  | <b>ENGG1001</b><br>Programming for Engineers | <b>MATH1052</b><br>Multivariate Calc & Ordinary Differential Equations | <b>GENERAL ELECTIVE</b><br>OR<br><b>PROGRAM ELECTIVE</b> | <b>GENERAL ELECTIVE</b><br>OR<br><b>PROGRAM ELECTIVE</b> |

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

| YEAR 3        |                                                                 |                                                        |                             |                             |
|---------------|-----------------------------------------------------------------|--------------------------------------------------------|-----------------------------|-----------------------------|
| Sem 2<br>July | <b>CIVL3520</b><br>Project Management and Professional Practice | <b>BE(Hons)/ME ELECTIVE</b>                            | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME ELECTIVE</b> |
| Sem 1<br>Feb  | <b>CIVL3210</b><br>Geotechnical Engineering                     | <b>CIVL3530</b><br>Data Analytics in Civil Engineering | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME ELECTIVE</b> |

| YEAR 4        |                                                              |                             |                             |                                     |
|---------------|--------------------------------------------------------------|-----------------------------|-----------------------------|-------------------------------------|
| Sem 2<br>July | <b>CIVL4516</b> <sup>1</sup> OR <b>CIVL4518</b> <sup>1</sup> | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME MASTERS ELECTIVE</b> |
| Sem 1<br>Feb  | <b>CIVL4170</b><br>Risk Analysis in Civil Engineering        | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME ELECTIVE</b>         |

| YEAR 5        |                                                                              |                             |                             |                                     |
|---------------|------------------------------------------------------------------------------|-----------------------------|-----------------------------|-------------------------------------|
| Sem 2<br>July | <b>ENGG7292</b> <sup>2</sup><br>Engineering Placement B <span>8 units</span> |                             |                             |                                     |
| Sem 1<br>Feb  | <b>BE(Hons)/ME ELECTIVE</b>                                                  | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME ELECTIVE</b> | <b>BE(Hons)/ME MASTERS ELECTIVE</b> |

| NOTES                                                                                                                                   |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| <sup>1</sup> CIVL4516: Integrated Design for the Natural Environment, CIVL4518: Integrated Design for the Built Environment             |  |  |  |  |
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