

# Bachelor of Engineering (Honours) (3707)

## Civil Engineering (CVENAH)

### T1 Entry 2023 Sample Plan



| Year 1 |                                                        | Year 2 |                                                               | Year 3 |                                                                | Year 4 |                                                                                |
|--------|--------------------------------------------------------|--------|---------------------------------------------------------------|--------|----------------------------------------------------------------|--------|--------------------------------------------------------------------------------|
| Term 1 | <b>DESN1000</b><br>Engineering Design and Innovation   | Term 1 | <b>ENGG2400</b><br>Mechanics of Solids                        | Term 1 | <b>CVEN3203</b><br>Applied Geotechnics                         | Term 1 | <b>CVEN4050</b> (6 UoC) <b>OR</b> <b>CVEN4951</b> (4 UoC)<br>Research Thesis A |
|        | <b>PHYS1121 OR PHYS1131</b> (Higher)<br>Physics 1A     |        | <b>ENGG2500</b><br>Fluid Mechanics for Engineers              |        | <b>CVEN3303</b><br>Steel Structures                            |        | <b>Discipline Elective Course*</b>                                             |
|        | <b>MATH1131 OR MATH1141</b><br>(Higher) Mathematics 1A |        | <b>MATH2018 OR MATH2019</b><br>Mathematics 2D (2E)            |        | <b>CVEN3501</b><br>Water Resources Engineering                 |        | <b>Discipline Elective Course*</b>                                             |
| Term 2 | <b>MATH1231 OR MATH1241</b> (Higher)<br>Mathematics 1B | Term 2 | <b>DESN2000</b><br>Engineering Design & Professional Practice | Term 2 | <b>CVEN3304</b><br>Concrete Structures                         | Term 2 | <b>CVEN4051</b> (6 UoC) <b>OR</b> <b>CVEN4952</b> (4 UoC)<br>Research Thesis B |
|        | <b>CVEN2101</b><br>Engineering Construction            |        | <b>CVEN2002</b><br>Engineering Computations                   |        | <b>CVEN3401</b><br>Sustainable Transport & Highway Engineering |        | <b>Discipline Elective Course*</b>                                             |
|        | <b>ENGG1300</b><br>Engineering Mechanics               |        | <b>CVEN2303</b><br>Structural Analysis and Modelling          |        | <b>CVEN3502</b><br>Water and Wastewater Engineering            |        | <b>General Education Course</b>                                                |
| Term 3 | <b>MATS1101</b><br>Engineering Materials and Chemistry | Term 3 | <b>General Education Course</b>                               | Term 3 | <b>Free Elective Course</b>                                    | Term 3 | <b>Free Elective</b>                                                           |
|        | <b>ENGG1811</b><br>Computing for Engineers             |        | <b>CVEN3202</b><br>Soil Mechanics                             |        | <b>CVEN3101</b><br>Engineering Operations and Control          |        | <b>Discipline Elective Course*</b>                                             |
|        |                                                        |        |                                                               |        |                                                                |        | <b>CVEN4953</b><br>Research Thesis C^ (4 UoC)                                  |

#### NOTES

Compulsory Training Component: There is a program requirement of 60 days approved [Industrial Training](#) ENGG4999

**\*Students completing CVEN4951/2/3 Research Thesis will need to complete CVEN4701 as one of their Discipline Electives. This is a compulsory requirement for graduations. Students completing CVEN4050/1 Thesis are not required to complete CVEN4701, but may still enrol if they wish to do so.**

**^Only required if students have enrolled into CVEN4951 and CVEN4952. Otherwise, leave as blank. This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.**

# Bachelor of Engineering (Honours) (3707)

## Civil Engineering (CVENAH)

### T2 Entry 2023 Sample Plan



| Year 1 |                                                                  | Year 2 |                                                               | Year 3 |                                                                         | Year 4 |                                                                                           |
|--------|------------------------------------------------------------------|--------|---------------------------------------------------------------|--------|-------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------|
| Term 2 | <b>MATH1131</b><br>Mathematics 1A                                | Term 2 | <b>CVEN2101</b><br>Engineering Construction                   | Term 2 | <b>CVEN2002</b><br>Engineering Computations                             | Term 2 | <b>CVEN3502</b><br>Water and Wastewater Engineering                                       |
|        | <b>PHYS1121</b> <u>OR</u> <b>PHYS1131</b> (Higher)<br>Physics 1A |        | <b>CVEN2303</b><br>Structural Analysis and Modelling          |        | <b>CVEN3304</b><br>Concrete Structures                                  |        | <b>CVEN4051</b> (6 UoC) <u>OR</u> <b>CVEN4951</b><br>(4 UoC) Research Thesis A            |
|        | <b>ENGG1811</b><br>Computing for Engineers                       |        | <b>DESN2000</b><br>Engineering Design & Professional Practice |        | <b>CVEN3401</b><br>Sustainable Transport & Highway Engineering          |        | <b>General Education Course</b>                                                           |
| Term 3 | <b>ENGG1300</b><br>Engineering Mechanics                         | Term 3 | <b>ENGG2500</b><br>Fluid Mechanics for Engineers              | Term 3 | <b>CVEN3101</b><br>Engineering Operations and Control                   | Term 3 | <b>CVEN4952</b> (4 UoC) Research Thesis B <u>OR</u><br><b>Discipline Elective Course*</b> |
|        | <b>MATH1231</b><br>Mathematics 1B                                |        | <b>MATH2018</b><br>Mathematics 2D                             |        | <b>Discipline Elective Course*</b>                                      |        | <b>Discipline Elective Course*</b>                                                        |
|        | <b>MATS1101</b><br>Engineering Materials and Chemistry           |        | <b>CVEN3202</b><br>Soil Mechanics                             |        | <b>Free Elective Course</b>                                             |        | <b>Free Elective Course</b>                                                               |
| Term 1 | <b>DESN1000</b><br>Engineering Design and Innovation             | Term 1 | <b>CVEN3203</b><br>Applied Geotechnics                        | Term 1 | <b>CVEN3303</b><br>Steel Structures                                     | Term 1 | <b>CVEN3501</b><br>Water Resources Engineering                                            |
|        | <b>ENGG2400</b><br>Mechanics of Solids                           |        | <b>General Education Course</b>                               |        | <b>CVEN4050</b><br>(6 UoC) <u>OR</u> <b>Discipline Elective Course*</b> |        | <b>Discipline Elective Course</b>                                                         |
|        |                                                                  |        |                                                               |        |                                                                         |        | <b>CVEN4953</b> (4 UoC)<br>Research Thesis C                                              |

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**^Only required if students have enrolled into CVEN4951 and CVEN4952. Otherwise, leave as blank.  
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# Bachelor of Engineering (Honours) (3707)

## Civil Engineering (CVENAH)

### T3 Entry 2023 Sample Plan



| Year 1 |                                                        | Year 2 |                                                               | Year 3 |                                                      | Year 4 |                                                                                |
|--------|--------------------------------------------------------|--------|---------------------------------------------------------------|--------|------------------------------------------------------|--------|--------------------------------------------------------------------------------|
| Term 3 | <b>DESN1000</b><br>Engineering Design and Innovation   | Term 3 | <b>ENGG2500</b><br>Fluid Mechanics for Engineers              | Term 3 | <b>Discipline Elective Course*</b>                   | Term 3 | <b>CVEN4951</b> (4 UoC)<br>Research Thesis A^                                  |
|        | <b>MATH1131 OR MATH1141</b> (Higher)<br>Mathematics 1A |        | <b>General Education Course</b>                               |        | <b>Free Elective Course</b>                          |        | <b>Discipline Elective Course*</b>                                             |
|        | <b>MATS1101</b><br>Engineering Materials and Chemistry |        | <b>CVEN3101</b><br>Engineering Operations and Control         |        | <b>CVEN3202</b><br>Soil Mechanics                    |        | <b>Discipline Elective Course*</b>                                             |
| Term 1 | <b>MATH1231 OR MATH1241</b> (Higher)<br>Mathematics 1B | Term 1 | <b>ENGG2400</b><br>Mechanics of Solids                        | Term 1 | <b>CVEN3203</b><br>Applied Geotechnics               | Term 1 | <b>CVEN4050</b> (6 UoC) <b>OR</b> <b>CVEN4952</b> (4 UoC)<br>Research Thesis B |
|        | <b>PHYS1121 OR PHYS1131</b> (Higher)<br>Physics 1A     |        | <b>MATH2018 OR MATH2019</b><br>Mathematics 2D (2E)            |        | <b>CVEN3501</b><br>Water Resources Engineering       |        | <b>General Education Course</b>                                                |
|        | <b>ENGG1811</b><br>Computing for Engineers             |        | <b>CVEN3303</b><br>Steel Structures                           |        |                                                      |        | <b>Discipline Elective Course*</b>                                             |
| Term 2 | <b>ENGG1300</b><br>Engineering Mechanics               | Term 2 | <b>DESN2000</b><br>Engineering Design & Professional Practice | Term 2 | <b>CVEN2303</b><br>Structural Analysis and Modelling | Term 2 | <b>CVEN4051</b> (6 UoC) <b>OR</b> <b>CVEN4953</b> (4 UoC)<br>Research Thesis C |
|        | <b>CVEN2101</b><br>Engineering Construction            |        | <b>CVEN2002</b><br>Engineering Computations                   |        | <b>CVEN3502</b><br>Water and Wastewater Engineering  |        | <b>CVEN3401</b><br>Sustainable Transport & Highway Engineering                 |
|        |                                                        |        |                                                               |        | <b>CVEN3304</b><br>Concrete Structures               |        | <b>Free Elective Course</b>                                                    |

#### NOTES

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**^Only required if students want to complete Research Thesis (CVEN4951/2/3), otherwise, leave this section blank. This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.**