

RECOMMENDED STUDY PLAN

2021

DEGREE Bachelor of Engineering (Honours) MAJOR Civil Engineering (CVL)

NAME _____ MINOR Infrastructure and Planning (IPL)

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor and refer to [Subject Search](#). If you would prefer a part-time study plan, please adjust the below planner, reviewing subject prerequisites to ensure you are on track for course completion.

| | Study Period 1 - SP1 | Study Period 2 - SP2 |
|--------|---|--|
| Year 1 | Degree Core: <u>EG1000</u> Engineering 1 | Degree Core: <u>EG1010</u> Process Engineering |
| | Degree Core: <u>EG1002</u> Computing and Sensors | Degree Core: <u>EG1011</u> Statics and Dynamics PREREQ: PH1005 OR (PHYSICS AND MATHS C) |
| | Degree Core: <u>MA1000</u> Mathematical Foundations PREREQ: MA1020 OR MATHS B OR MATHS C | Degree Core: <u>EG1012</u> Electric Circuits |
| | Degree Core: <u>PH1005</u> Advanced Stream Physics 1 PREREQ: MATHS B OR MA1020 OR MA1000 OR MA1008 | Degree Core: <u>MA1003</u> Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009 |

| | Study Period 1 - SP1 | Study Period 2 - SP2 |
|--------|---|--|
| Year 2 | Degree Core: <u>MA2000</u> Mathematics for Scientists and Engineers PREREQ: MA1003 | Major Core: <u>CS2003</u> Introduction to Structural Design PREREQ: CS2001 |
| | Major Core: <u>CS2001</u> Engineering Strength of Materials PREREQ: EG1011 | Major Core: <u>CS2005</u> Introduction to Geotechnical Engineering PREREQ: EG1011 |
| | Major Core: <u>CS2002</u> Catchment, Stream and Lake Engineering | Minor Core List 1: |
| | Major Core: <u>ME2512</u> Thermofluid Mechanics PREREQ: EG1011 | Minor Core List 1: |

| | Study Period 1 - SP1 | Study Period 2 - SP2 |
|--------|--|--|
| Year 3 | Degree Core: <u>EG3000</u> Introduction to Systems Engineering and Project Management PREREQ: EG1000 AND EG1002 AND EG1010 AND EG1011 AND EG1012 AND MA1000 AND MA1003 AND (PH1005 OR EG1001) OR 36CP | Major Core: <u>CS3002</u> Soil Mechanics and Geology PREREQ: CS2005 |
| | Major Core: <u>CS3000</u> Structural Analysis PREREQ: CS2003 AND MA2000 | Major Core: <u>CS3003</u> Design of Steel and Concrete Structures PREREQ: CS2003 AND CS3000 |
| | Major Core: <u>CS3001</u> Concrete Engineering PREREQ: CS2001 | Major Core: <u>CS3004</u> Transportation Engineering – <i>only offered EVEN years</i> * |
| | Minor Core: <u>EV2301</u> Urban Geography and Design PREREQ: 12CP LEVEL 1 SUBJECTS | Major Core: <u>CS3008</u> Fluid Mechanics PREREQ: MA2000 AND ME2512 |

*Will need to swap CS3004 & CS2004 depending on the year.

| Year 4 | Study Period 1 - SP1 | Study Period 2 - SP2 |
|--------|--|---|
| | Degree Core: <u>EG4011</u> Thesis Part 1 of 2 PREREQ: 72CP | Degree Core: <u>EG4012</u> Thesis Part 2 of 2 PREREQ: EG4011 |
| | Major Core: <u>CS4001</u> Foundation Engineering and Rock Mechanics PREREQ: CS3002 | Major Core: <u>CS4005</u> Civil Engineering Design PREREQ: CS3001 AND CS3003 AND CS40001 AND CS4002 |
| | Major Core: <u>CS4002</u> Hydraulic and Coastal Engineering PREREQ: CS3008 | Major Core: <u>CS4008</u> Water and Wastewater Engineering PREREQ: CS2002 AND EG1010 |
| | Major Core: <u>CS4010</u> Finite Element Analysis and Structural Dynamics PREREQ: EG1002 AND CS3000 AND MA2000 | Minor Core: <u>CS2004</u> Surveying and Construction - <i>only offered ODD years *</i> |

**Will need to swap CS3004 & CS2004 depending on the year.*

Further Degree Options:

| Minor Core List 1: | | |
|--|--|--|
| Study Period 1 – SP1 | Study Period 2 – SP2 | |
| <u>EV3001</u> Environmental and Regional Planning PREREQ: AT LEAST 12CP LEVEL 2 SUBJECTS INCLUDING 6CP LEVEL 2 EV | <u>EV2502</u> Introduction to Geographic Information Systems PREREQ: AT LEAST 12CP LEVEL 1 SUBJECTS | |
| | <u>EV3110</u> Environmental and Social Impact Assessment PREREQ: 12CP LEVEL 2 SUBJECTS | |
| | <u>EV3606</u> Disasters, Communities and Planning PREREQ: 12CP LEVEL 2 SUBJECTS | |
| | <u>EV2130</u> Introduction to Urban Ecosystems – <i>not currently offered</i> | |
| | <u>EV2360</u> Population Geography and Demography – <i>not currently offered</i> | |
| | <u>EV2120</u> Design Communication – <i>not currently offered</i> | |
| | SP10 & SP11 (Nov-Feb) | |
| | <u>EV3010</u> Planning for Sustainable Communities in a Changing Environment - SP10 PREREQ: AT LEAST 12CP LEVEL 2 SUBJECTS INCLUDING 6CP LEVEL 2 EV OR EA | |
| | <u>EV3502</u> Advanced Geographic Information Systems - SP11 PREREQ: AT LEAST 12CP LEVEL 2 INCLUDING EV2502 | |