

## RECOMMENDED STUDY PLAN

2021-2022

DEGREE Bachelor of Engineering (Honours) MAJOR Electrical and Electronic Engineering (EEL)

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<br>PREREQ: PH1005 OR (PHYSICS AND MATHS C) |
|        | Degree Core: <u>MA1000</u> Mathematical Foundations<br>PREREQ: MA1020 OR MATHS B OR MATHS C           | Degree Core: <u>EG1012</u> Electric Circuits   |
|        | Degree Core: <u>PH1005</u> Advanced Stream Physics 1<br>PREREQ: MATHS B OR MA1020 OR MA1000 OR MA1008 | Degree Core: <u>MA1003</u> Mathematical Techniques<br>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<br>PREREQ: MA1003  | Major Core: <u>CC2511</u> Embedded Systems Design<br>PREREQ: EG1002 OR CP1300 OR CP1404                                    |
|        | Major Core: <u>CC2510</u> Digital Logic and Computing Methods<br>PREREQ: EG1002 OR CP1401                                    | Major Core: <u>EE2300</u> Electronics 1<br>PREREQ: EG1012  |
|        | Major Core: <u>EE2201</u> Circuit Theory<br>PREREQ: EG1012 AND MA2000  | Major Core: <u>EE3600</u> Automatic Control 1<br>PREREQ: EG1012 AND MA2000 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF) |
|        | Major Core: <u>PH2019</u> Introduction to Electromagnetism Optics and Early Quantum<br>PREREQ: (EG1012 OR PH1005) AND MA1003 | <b>Minor Core List 1:</b>  |

|        | Study Period 1 - SP1  | Study Period 2 - SP2  |
|--------|---|---|
| Year 3 | Major Core: <u>EE3010</u> Digital Signal Processing<br>PREREQ: 48CP   | Major Core: <u>CC3501</u> Computing Interfacing and Control<br>PREREQ: CC2511 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF) |
|        | Major Core: <u>EE3300</u> Electronics 2<br>PREREQ: EE2300   | Major Core: <u>EE3700</u> Communications Systems Principles<br>PREREQ: EE2201   |
|        | Major Core: <u>EE3400</u> Power Engineering 1<br>PREREQ: EE2201 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF) | Major Core: <u>EE4600</u> Automatic Control 2<br>PREREQ: EE3600 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)               |
|        | Minor Core: <u>EV2301</u> Urban Geography and Design<br>PREREQ: 12CP OF LEVEL 1 SUBJECTS                        | <b>Minor Core List 1:</b>   |

|               |   |   |
|---------------|---|---|
| <b>Year 4</b> | <b>Study Period 1 - SP1</b>   | <b>Study Period 2 - SP2</b>   |
|               | <b>Degree Core:</b> <u>EG4011</u> Thesis Part 1 of 2<br>PREREQ: 72CP  | <b>Degree Core:</b> <u>EG4012</u> Thesis Part 2 of 2<br>PREREQ: EG4011  |
|               | <b>Degree Core:</b> <u>EG3000</u> Introduction to Systems Engineering and Project Management<br>PREREQ: EG1000 AND EG1002 AND EG1010 AND EG1011 AND EG1012 AND MA1000 AND MA1003 AND (PH1005 OR EG1001) OR 36CP | <b>Major Core:</b> <u>EE4400</u> Power Engineering 2<br>PREREQ: EE3400 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)  |
|               | <b>Major Core:</b> <u>EE4010</u> Analog Filters and Signals<br>PREREQ: EE2201 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)   | <b>Major Core:</b> <u>EE4500</u> Electrical and Electronic Engineering Design<br>PREREQ: EE3600 AND EE3300 AND EE3001 OR ADMITTANCE INTO MASTER OF ENGINEERING (PROF)                               |
|               | <b>Minor Core List 1:</b>   | <b>Major Core:</b> <u>EG4013</u> Asset Management, Maintenance and Reliability<br>PREREQ: (EG1000 AND EG1002 AND EG1010 AND EG1011 AND EG1012 AND MA1000 AND MA1003 AND (PH1005 OR EG1001)) OR 36CP |

**Further Degree Options:**

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