

## RECOMMENDED STUDY PLAN

2021-2022

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

NAME \_\_\_\_\_

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 CP1300                                    | 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              |
|        | Major Core: <u>PH2019</u> Introduction to Electromagnetism Optics and Early Quantum<br>PREREQ: (EG1012 OR PH1005) AND MA1003 | <u>List 1:</u>  |

|        | 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 |
|        | 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     | Major Core: <u>EE4600</u> Automatic Control 2<br>PREREQ: EE3600               |
|        | <u>List 1:</u>  | <u>List 1:</u>  |

|                |   |   |
|----------------|---|---|
| <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  |
|                | <b>Major Core:</b> <u>EE4010</u> Analog Filters and Signals<br>PREREQ: EE2201   | <b>Major Core:</b> <u>EE4500</u> Electrical and Electronic Engineering Design<br>PREREQ: EE3600 AND EE3300 AND EE3001 |
| <b>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>List 1:</b>   |   |
|--|---|
| <b>Study Period 1 – SP1</b>  | <b>Study Period 2 – SP2</b>   |
| <u>CL2501</u> Process Analysis – <i>TSV ONLY</i><br>PREREQ: EG1010   | <u>PH2240</u> Atomic and Nuclear Physics – <i>TSV ONLY</i><br>PREREQ: PH2002 AND MA1003                                   |
| <u>CS2001</u> Engineering Strength of Materials<br>PREREQ: EG1011  | <u>EA1110</u> Evolution of the Earth  |
| <u>EV2301</u> Urban Geography and Design<br>PREREQ: 12CP LEVEL 1 SUBJECTS  | <u>CP2406</u> Programming III<br>PREREQ: CP1404 OR CP1804 OR CP1300   |
| <u>PH2002</u> Classical Mechanics and Quantum Physics 1<br>PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011)) | <u>CS2004</u> Surveying and Construction – <i>TSV ONLY, offered ODD years only</i>  |
| <u>MA2211</u> - Discrete Mathematics – <i>TSV ONLY</i><br>PREREQ: MATHS B  | <u>EG2010</u> Materials Science and Engineering – <i>TSV only</i>   |
| <u>ME4521</u> Bulk Materials Handling – <i>TSV only, offered ODD years only</i><br>PREREQ: 48CP                                    | <u>EV2502</u> Introduction to Geographic Information Systems<br>PREREQ: 12CP LEVEL 1 SUBJECTS                             |
|  | <u>MA2210</u> - Linear Algebra<br>PREREQ: MA1003  |
|  | <u>ME2525</u> Machine Element Design – <i>TSV ONLY</i><br>PREREQ: CS2001  |
|  | <b>SP11 (Nov-Feb)</b>   |
|  | <u>EV3502</u> Advanced Geographic Information Systems – <i>TSV ONLY</i><br>PREREQ: AT LEAST 12CP LEVEL 2 INCLUDING EV2502 |
|  | <b>TRIMESTER 3 (Sept-Dec)</b>   |
|  | <u>CP1404</u> Programming II<br>PREREQ: CP1801 OR CP1401 OR CP1200 OR OR CP2200 OR SC1201                                 |