

RECOMMENDED STUDY PLAN

2021-2022

DEGREE Bachelor of Engineering (Honours) MAJOR Chemical Engineering (CEM)

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>CH1002</u> Chemistry: Principles & Applications PREREQ: CH1001 OR CH1011 |
| | Major Core: <u>CH1001</u> Chemistry: A Central Science PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY | Major Core: <u>CL2502</u> Chemical Engineering Thermodynamics PREREQ: CL2501 AND MA2000 |
| | Major Core: <u>CL2501</u> Process Analysis PREREQ: EG1010 | Major Core: <u>CS3008</u> Fluid Mechanics PREREQ: MA2000 AND ME2512 |
| | 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>CH2103</u> Analytical Chemistry PREREQ: CH1001 OR CH1011 |
| | Major Core: <u>CL3021</u> Mass Transfer Operations PREREQ: CL2501 AND MA2000 | Major Core: <u>EE3600</u> Automatic Control 1 PREREQ: EG1012 AND MA2000 |
| | Major Core: <u>CL3030</u> Reactor Design PREREQ: CL2501 AND MA2000 | Major Core: <u>ME3512</u> Heat and Mass Transfer PREREQ: MA2000 |
| | Minor Core: <u>EV2301</u> Urban Geography and Design PREREQ: 12CP LEVEL 1 SUBJECTS | Major Core: <u>CL4538</u> Bioprocess Engineering PREREQ: CL2502 OR CL3010 AND CL3021 AND CL3030 |

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|---------------|---|--|
| 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>CL4040</u> Safety, Environment and Sustainability in the Process Industries PREREQ: 48CP | Major Core: <u>CL4537</u> Minerals and Solids Processing PREREQ: 48CP |
| | Major Core: <u>CL4071</u> Chemical Engineering Design (Part 1 of 2) PREREQ: CL3010 AND CL3021 AND CL3030 AND CL4538 AND CS3008 AND ME3512 | Major Core: <u>CL4072</u> Chemical Engineering Design (Part 2 of 2) PREREQ: CL4071 |
| | Minor Core List 1: | Minor Core List 1: |

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 – not currently offered |
| | <u>EV2360</u> Population Geography and Demography – not currently offered |
| | <u>EV2120</u> Design Communication – not currently offered |
| | <u>EV3010</u> Planning for Sustainable Communities in a Changing Environment – not currently offered PREREQ: AT LEAST 12CP LEVEL 2 SUBJECTS INCLUDING 6CP LEVEL 2 EV OR EA |
| | SP11 (Nov-Feb) |
| | <u>EV3502</u> Advanced Geographic Information Systems - SP11 –TSV only PREREQ: AT LEAST 12CP LEVEL 2 INCLUDING EV2502 |