

## RECOMMENDED STUDY PLAN

2021-2022

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

NAME \_\_\_\_\_ MINOR Mining and Minerals (MNM)

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

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	<b>Degree Core:</b> <u>MA2000</u> Mathematics for Scientists and Engineers PREREQ: MA1003	<b>Major Core:</b> <u>CH1002</u> Chemistry: Principles & Applications PREREQ: CH1001 OR CH1011
	<b>Major Core:</b> <u>CH1001</u> Chemistry: A Central Science PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY	<b>Major Core:</b> <u>CL2502</u> Chemical Engineering Thermodynamics PREREQ: CL2501 AND MA2000
	<b>Major Core:</b> <u>CL2501</u> Process Analysis PREREQ: EG1010	<b>Major Core:</b> <u>CS3008</u> Fluid Mechanics PREREQ: MA2000 AND ME2512
	<b>Major Core:</b> <u>ME2512</u> Thermofluid Mechanics PREREQ: EG1011	<b>Minor Core:</b> <u>EA1110</u> Evolution of the Earth

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	<b>Degree Core:</b> <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	<b>Major Core:</b> <u>CH2103</u> Analytical Chemistry PREREQ: CH1001 OR CH1011
	<b>Major Core:</b> <u>CL3021</u> Mass Transfer Operations PREREQ: CL2501 AND MA2000	<b>Major Core:</b> <u>EE3600</u> Automatic Control 1 PREREQ: EG1012 AND MA2000
	<b>Major Core:</b> <u>CL3030</u> Reactor Design PREREQ: CL2501 AND MA2000	<b>Major Core:</b> <u>ME3512</u> Heat and Mass Transfer PREREQ: MA2000
	<b>Minor Core:</b> <u>EA2510</u> Earth Resources, Exploration and Environment PREREQ: EA1110 PLUS 9CP LEVEL 1 AN, AR, BZ, EV, MA, MB, PH, SC, (BU1004 OR BU1104) SUBJECTS	<b>Major Core:</b> <u>CL4538</u> Bioprocess Engineering PREREQ: CL2502 OR CL3010 AND CL3021 AND CL3030

<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 PREREQ: 72CP	<b>Degree Core:</b> <u>EG4012</u> Thesis Part 2 of 2 PREREQ: EG4011
	<b>Major Core:</b> <u>CL4040</u> Safety, Environment and Sustainability in the Process Industries PREREQ: 48CP	<b>Major Core:</b> <u>CL4537</u> Minerals and Solids Processing PREREQ: 48CP
	<b>Major Core:</b> <u>CL4071</u> Chemical Engineering Design (Part 1 of 2) PREREQ: CL3010 AND CL3021 AND CL3030 AND CL4538 AND CS3008 AND ME3512	<b>Major Core:</b> <u>CL4072</u> Chemical Engineering Design (Part 2 of 2) PREREQ: CL4071
	<b>Minor Core:</b> <u>ME4521</u> Bulk Materials Handling – <i>only offered ODD years *</i> PREREQ: 48CP	<b>Minor Core List 1:</b>

\* Will need to swap EG3000 and ME4521, depending on the year.

**Further Degree Options:**

<b>Minor Core List 1:</b>	
Study Period 1 – SP1	Study Period 2 – SP2
<u>EA3400</u> Ore Genesis PREREQ: 12CP LEVEL 2 SUBJECTS INCLUDING EA2510 AND EA2220	

<b>Study Period 7 - SP7 (Jun-Jul)</b>
<u>EA2900</u> Introductory Field Geology PREREQ: EA1110 PLUS 9CP LEVEL 1 AN, AR, BZ, EV, MA, MB, PH, SC, (BU1004 OR BU1104) SUBJECTS