

RECOMMENDED STUDY PLAN

2022

DEGREE Bachelor of Engineering (Honours) – Bachelor of Science NAME _____

BEng. MAJOR Chemical Engineering (CEM) - BSc MAJOR Choose a Major from Table B

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>MA1000</u> Mathematical Foundations PREREQ: MA1020 OR MATHS B OR MATHS C	Degree Core: <u>EG1011</u> Statics and Dynamics PREREQ: PH1005 OR (PHYSICS AND MATHS C)
	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
	Degree Core: <u>EG1002</u> Computing and Sensors	Degree Core: <u>EG1012</u> Electric Circuits

*Students may be required to take MA1020 in SP3 which will count as an elective line.

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	Degree Core: <u>MA2000</u> Mathematics for Scientists and Engineers PREREQ: MA1003	BEng Major Core: <u>CH1002</u> Chemistry: Principles & Applications PREREQ: CH1001 OR CH1011
	BEng Major Core: <u>CH1001</u> Chemistry: A Central Science PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY	BEng Major Core: <u>CH2103</u> Analytical Chemistry PREREQ: CH1001 OR CH1011
	BEng Major Core: <u>CL2501</u> Process Analysis PREREQ: EG1010	BEng Major Core: <u>CL2502</u> Chemical Engineering Thermodynamics PREREQ: CL2501 AND MA2000
	BSc Major Core:	BSc Major Core:

	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	BEng Major Core <u>EE3600</u> Automatic Control 1 PREREQ: EG1012 AND MA2000
	BEng Major Core: <u>ME2512</u> Thermofluid Mechanics PREREQ: EG1011	BEng Major Core <u>CS3008</u> Fluid Mechanics PREREQ: MA2000 AND ME2512
	BSc Major Core:	BSc Major Core:
	Elective: REQUIRED FOR BSc <u>SC2202</u> Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MA1000 OR MATHS B OR EQUIVALENT OR <u>SC2209</u> Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Elective:

	Study Period 1 - SP1	Study Period 2 - SP2
Year 4	BEng Major Core <u>CL3021</u> Mass Transfer Operations PREREQ: CL2501 AND MA2000	BEng Major Core <u>ME3512</u> Heat and Mass Transfer PREREQ: MA2000
	BEng Major Core <u>CL3030</u> Reactor Design PREREQ: CL2501 AND MA2000	BEng Major Core: <u>CL4538</u> Bioprocess Engineering PREREQ: CL2502 OR CL3010 AND CL3021 AND CL3030
	BSc Major Core:	BSc Major Core:
	BSc Major Core:	BSc Major Core:

	Study Period 1 - SP1	Study Period 2 - SP2
Year 5	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: (CL2502 OR 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
	Elective: <i>see below for details</i>	Elective: <i>see below for details</i>

Further Degree Options:

Select any 2 undergraduate subjects (if required to undertake MA1020 Preparatory Mathematics, select 1 subject **AND** Select 2 Level 2 or 3 Science subjects **AND** Select a BSc Major from Table B