

The information provided is designed to provide helpful information on your study plan. Changes to subject information after this time may affect your study plan. Please refer to the enrolment resources for up to date information.

RECOMMENDED STUDY PLAN

2021

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

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

	Study Period 1 - SP1	Study Period 2 - SP2	
	BEng Major Core: ME2512 Thermofluid Mechanics PREREQ: EG1011	BEng Major Core: CH2103 Analytical Chemistry PREREQ: CH1001 OR CH1011	
Year 3	BSc Major Core:	BEng Major Core: CS3008 Fluid Mechanics PREREQ: MA2000 AND ME2512	
	BSc Major Core:	BSc Major Core:	
	<u>List Options</u> : see information below	<u>List Options</u> : see information below	

	Study Period 1 - SP1	Study Period 2 - SP2	
4	Degree Core: EG3000 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: EE3600 Automatic Control 1 PREREQ: EG1012 AND MA2000	
Year	BEng Major Core: CL3021 Mass Transfer Operations PREREQ: CL2501 AND MA2000	BEng Major Core: ME3512 Heat and Mass Transfer PREREQ: MA2000	
	BEng Major Core: CL3030 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:	

	Study Period 1 - SP1	Study Period 2 - SP2	
	Degree Core: EG4011 Thesis Part 1 of 2 PREREQ: 72CP	Degree Core: EG4012 Thesis Part 2 of 2 PREREQ: EG4011	
ar 5	BEng Major Core: <u>CL4040</u> Safety, Environment and Sustainability in the Process Industries PREREQ: 48CP	BEng Major Core: CL4537 Minerals and Solids Processing PREREQ: 48CP	
Year	BEng Major Core: CL4071 Chemical Engineering Design (Part 1 of 2) PREREQ: CL3010 AND CL3021 AND CL3030 AND CL4538 AND CS3008 AND ME3512	BEng Major Core: <u>CL4072</u> Chemical Engineering Design (Part 2 of 2) PREREQ: CL4071	
	<u>List Options</u> : see tables below for details	<u>List Options</u> : see tables below for details	

Further Degree Options:

Select 2 subjects from List 1^* **AND** Select 2 Level 2 or 3 Science subjects **AND** Select a <u>BSc Major from Table B</u>

<u>List 1</u> :				
Study Period 1 – SP1	Study Period 2 – SP2			
CS2001 Engineering Strength of Materials PREREQ: EG1011	CP1404 Programming II PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201			
EV2301 Urban Geography and Design PREREQ: 12CP LEVEL 1 SUBJECTS	EA1110 Evolution of the Earth			
PH2002 Classical Mechanics and Quantum Physics 1 PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))	CC2511 – Embedded Systems Design PREREQ: EG1002 OR CP1300 OR CP1404			
PH2019 Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	CP2406 Programming III PREREQ: CP1404 OR CP1804 OR CP1300			
EE4000 Signal Processing 3 – TSV only PREREQ: 48CP	CS2004 Surveying and Construction – TSV ONLY, offered ODD years only			
ME4521 Bulk Materials Handling – TSV only, offered ODD years only PREREQ: 48CP	EG2010 Materials Science and Engineering – TSV only			
MA2211 - Discrete Mathematics – TSV ONLY PREREQ: MATHS B	EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS			
	MA2210 - Linear Algebra PREREQ: MA1003			
	ME2525 Machine Element Design – TSV ONLY PREREQ: CS2001			
PH2240 Atomic and Nuclear Phy PREREQ: PH2002 AND MA1003				
	CC3501 Computer Interfacing and Control PREREQ: CC2511			
		SP11 (Nov-Feb)		
		EV3502 Advanced Geographic Information Systems – TSV ONLY PREREQ: AT LEAST 12CP LEVEL 2 INCLUDING EV2502		

^{*} If undertaking MA1020 only choose 1 subject from this list.