

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

2021-2022

Dedree Dachelor of Engineering (Honours) wason chemical Engineering (C	DEGREE	Bachelor of	Engineering	(Honours)	MAJOR Chemical Engineering (CEM)
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NAME		

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
Year 1	Degree Core: EG1000 Engineering 1	Degree Core: EG1010 Process Engineering
	Degree Core: EG1002 Computing and Sensors	Degree Core: EG1011 Statics and Dynamics PREREQ: PH1005 OR (PHYSICS AND MATHS C)
	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
Year 2	Degree Core: MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003	Major Core: CH1002 Chemistry: Principles & Applications PREREQ: CH1001 OR CH1011
	Major Core: CH1001 Chemistry: A Central Science PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY	Major Core: CL2502 Chemical Engineering Thermodynamics PREREQ: CL2501 AND MA2000
	Major Core: <u>CL2501</u> Process Analysis PREREQ: EG1010	Major Core: CS3008 Fluid Mechanics PREREQ: MA2000 AND ME2512
	Major Core: ME2512 Thermofluid Mechanics PREREQ: EG1011	<u>List 1</u> :

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	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	Major Core: CH2103 Analytical Chemistry PREREQ: CH1001 OR CH1011
	Major Core: CL3021 Mass Transfer Operations PREREQ: CL2501 AND MA2000	Major Core: EE3600 Automatic Control 1 PREREQ: EG1012 AND MA2000
	Major Core: <u>CL3030</u> Reactor Design PREREQ: CL2501 AND MA2000	Major Core: ME3512 Heat and Mass Transfer PREREQ: MA2000
	<u>List 1</u> :	Major Core: <u>CL4538</u> Bioprocess Engineering PREREQ: CL2502 OR CL3010 AND CL3021 AND CL3030

	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
Year 4	Major Core: <u>CL4040</u> Safety, Environment and Sustainability in the Process Industries PREREQ: 48CP	Major Core: CL4537 Minerals and Solids Processing PREREQ: 48CP
	Major Core: CL4071 Chemical Engineering Design (Part 1 of 2) PREREQ: CL3010 AND CL3021 AND CL3030 AND CL4538 AND CS3008 AND ME3512	Major Core: CL4072 Chemical Engineering Design (Part 2 of 2) PREREQ: CL4071
	<u>List 1</u> :	<u>List 1</u> :

Further Degree Options:

<u>List 1</u> :		
Study Period 1 – SP1	Study Period 2 – SP2	
<u>CL2501</u> Process Analysis — TSV ONLY Subject is CORE in Major PREREQ: EG1010	EA1110 Evolution of the Earth	
CS2001 Engineering Strength of Materials PREREQ: EG1011	EG2010 Materials Science and Engineering – TSV only	
EV2301 Urban Geography and Design PREREQ: 12CP LEVEL 1 SUBJECTS	EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS	
MA2211 - Discrete Mathematics – TSV ONLY PREREQ: MATHS B	CC2511 – Embedded Systems Design PREREQ: EG1002 OR CP1300 OR CP1404	
PH2002 Classical Mechanics and Quantum Physics 1 PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))	CP2406 Programming III PREREQ: CP1404	
PH2019 Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	CS2004 Surveying and Construction – TSV ONLY, offered ODD years only	
EE3010 Digital Signal Processing PREREQ: 48CP	MA2210 - Linear Algebra PREREQ: MA1003	
ME4521 Bulk Materials Handling – TSV only, offered ODD years only PREREQ: 48CP	ME2525 Machine Element Design – TSV ONLY PREREQ: CS2001	
	PH2240 Atomic and Nuclear Physics – TSV ONLY 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
Trimester 3 (Sept-Dec)
<u>CP1404</u> Programming II PREREQ: CP1401 OR EG1002