

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

2022

DEGREE Bachelor of Engineering (Honours) – Bachelor of Information Technology

MAJOR Chemical Engineering (CEM)

To assist you with subject information, we recommend you consult with your <u>CSE Course/Major Advisor</u> 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	
ear 1	Degree Core: EG1002 Computing and Sensors	Degree Core: EG1011 Statics and Dynamics PREREQ: PH1005 OR (PHYSICS AND MATHS C)	
Ye	Degree Core: <u>MA1000</u> Mathematical Foundations PREREQ: MA1020 OR MATHS B OR MATHS C	Degree Core: EG1012 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	

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

	Study Period 1 - SP1	Study Period 2 - SP2	
r 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	
Year	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		
	Trimester 1 (Eeb May)	Trimester 3 (sent Dec)	

Trimester 1 (Feb-May)

Degree Core: <u>CP1402</u> Internet Fundamentals

Ir	Ime	ster	3 (S	ept-Dec)	
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Degree Core: <u>CP1403</u> Design Thinking

Degree Core: <u>CP1404</u> Programming II PREREQ: CP1401 OR EG1002

	Study Period 1 - SP1		Study Period 2 - SP2	
Major Core: ME2512 Thermofluid Mechanics PREREQ: EG1011		Major Core: <u>CH2103</u> Analytical Chemistry PREREQ: CH1001 OR CH1011		
	List Options: see tables below for details		Major Core: CS3008 Fluid Mechanics PREREQ: MA2000 AND ME2512	
				Trimester 3 (Sept-Dec)
				Degree Core: <u>CP2404</u> Database Modelling
Trimester TBA				
List Options: see tables below for details Degree Core: CP2		2406 Programming III	Degree Core: <u>CP3407</u> Advanced Software Engineering PREREQ: CP1404 AND 18CP OF SUBJECTS	

	Study Period 1 - SP1		Study Period 2 - SP2	
Year 4	Degree Core:EG3000Introduction to SystemsEngineering and Project ManagementPREREQ:EG1000 AND EG1002 AND EG1010 AND EG1011 ANDEG1012 AND MA1000 AND MA1003 AND (PH1005 OR EG1001)OR 36CP		Major Core: <u>EE3600</u> Automatic Control 1 PREREQ: EG1012 AND MA2000	
	Major Core: <u>CL3021</u> Mass Transfer Operations PREREQ: CL2501 AND MA2000		Major Core: ME3512 Heat and Mass Transfer PREREQ: MA2000	
	Major Core: <u>CL3030</u> Reactor Design PREREQ: CL2501 AND MA2000		Major Core: <u>CL4538</u> Bioprocess Engineering PREREQ: CL2502 OR CL3010 AND CL3021 AND CL3030	
Trimester TBA				
List Options: see tables below for detailsList Options: see details		tables below for		

	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	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	
Year	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	
	List Options: see tables below for details			
Trimester TBA				
List Options: see tables below for details				

Further Degree Options:

Select 1 subject from List 1 AND Select 3 subjects from List 2 AND Select any 2 undergraduate subjects OR if required to take MA1020 select 1 undergraduate subject.

List 1: Select 1 subject				
Trimester 1 (Feb-May) Trimester 2 (Jun-Aug)		Trimester 3 (Sept-Dec)		
<u>CP1406</u> Web Design and Development <u>CP1406</u> Web Design and Development and Data Science				
Trimester TBA				
<u>CP2410</u> Algorithms and Data Structures PREREQ: 6CP OF CP SUBJECTS	<u>CP2405</u> Collective Intelligence and Entrepreneurship PREREQ: 24CP	<u>CP2409</u> Network Forensics and Data Communications PREREQ: CP1402		
<u>CP2411</u> 3D Modelling and Animation PREREQ: 6CP OF CP SUBJECTS	<u>CP2408</u> Design Thinking and Creative IT Industries PREREQ: CP1403	CP2412 Game Design and Technologies PREREQ: 6CP OF CP SUBJECTS		

List 2: Select 3 subjects				
Trimester TBA				
<u>CP3402</u> Content Management Systems PREREQ: (CP1404 OR CP1804 AND CP1406 OR CP1806) OR CP2010, AND 24CP OF CP SUBJECTS	<u>CP3404</u> Information Security PREREQ: 18CP OF SUBJECTS, INLCUDING CP1402	<u>CP3406</u> Mobile Computing PREREQ: CP1404 OR CP1804		
<u>CP3403</u> Data Mining PREREQ: (CP2403 AND CP2404) OR (18 CREDIT POINTS OF UNDERGRADUATE SUBJECTS INCLUDING 6 CREDIT POINTS OF CP SUBJECTS)	<u>CP3405</u> Design Thinking and Project Management PREREQ: CP2408	CP3408 Simulation PREREQ: (CP1404 OR CP1804) AND 18 CP OF CP SUBJECTS		