

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)	малок <u>Chemical Engineering (CEM)</u>
NAME		MINOR Data Science (DSC)

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.

Year 1	Study Period 1 - SP1	Study Period 2 - SP2
	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

Year 2	Study Period 1 - SP1	Study Period 2 - SP2
	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: CL2501 Process Analysis PREREQ: EG1010	Major Core: CS3008 Fluid Mechanics PREREQ: MA2000 AND ME2512
	Major Core: ME2512 Thermofluid Mechanics PREREQ: EG1011	Minor Core: MA1580 Foundations of Data Science PREREQ: MA1000 OR MA1020 OR MATHS B

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	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: CL3030 Reactor Design PREREQ: CL2501 AND MA2000	Major Core: ME3512 Heat and Mass Transfer PREREQ: MA2000
	Minor Core: SC2202 Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MATHS B OR EQUIVALENT	Major Core: CL4538 Bioprocess Engineering PREREQ: CL2502 OR CL3010 AND CL3021 AND CL3030

Year 4	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
	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: <u>CL4072</u> Chemical Engineering Design (Part 2 of 2) PREREQ: CL4071
	Minor Core List 1:	Minor Core: MA2405 Advanced Statistical Modelling PREREQ: MA1401 OR MA2401 OR SC2202/SC2209

Further Degree Options:

Minor Core List 1:	
Study Period 1 – SP1	Study Period 2 – SP2
MA3831 Natural Language Processing, Web Scraping and Large Data Processing PREREQ: CP1404	MA3405 Statistical Data Mining for Big Data PREREQ: MA2405 OR MA2000 OR SC2202/SC2209
	MA3832 Neural Network and Deep Learning PREREQ: MA3405 OR MA5405 OR CP1404