JAMES COOK UNIVERSITY AUSTRALIA

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 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:** EG1000 Engineering 1	**Degree Core:** EG1010 Process Engineering
	Degree Core: MA1000 Mathematical Foundations **PREREQ: MA1020 OR MATHS B OR MATHS C**	**Degree Core:** EG1011 Statics and Dynamics **PREREQ: PH1005 OR (PHYSICS AND MATHS C)**
	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**
	Degree Core: EG1002 Computing and Sensors	**Degree Core:** EG1012 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:** MA2000 Mathematics for Scientists and Engineers **PREREQ: MA1003**	**BEng Major Core:** CH1002 Chemistry: Principles & Applications **PREREQ: CH1001 OR CH1011**
	BEng Major Core: CH1001 Chemistry: A Central Science **PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY**	**BEng Major Core:** CH2103 Analytical Chemistry **PREREQ: CH1001 OR CH1011**
	BEng Major Core: CL2501 Process Analysis **PREREQ: EG1010**	**BEng Major Core:** CL2502 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:** 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**
	BEng Major Core: ME2512 Thermofluid Mechanics **PREREQ: EG1011**	**BEng Major Core** CS3008 Fluid Mechanics **PREREQ: MA2000 AND ME2512**
	BSc Major Core:	**BSc Major Core:**
	Elective: REQUIRED FOR BSc SC2202 Quantitative Methods in Science **PREREQ: SC1102 OR MA1020 OR MA1000 OR MATHS B OR EQUIVALENT** **OR** SC2209 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** 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:** CL4538 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:** EG4011 Thesis Part 1 of 2 **PREREQ: 72CP**	**Degree Core:** EG4012 Thesis Part 2 of 2 **PREREQ: EG4011**
	Major Core: CL4040 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: (CL2502 OR CL3010) AND CL3021 AND CL3030 AND CL4538 AND CS3008 AND ME3512**	**Major Core:** CL4072 Chemical Engineering Design (Part 2 of 2) **PREREQ: CL4071**
	Elective: *see below for details*	**Elective:** *see below for details*

Further Degree Options:

Select any 2 undergraduate subjects (f 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