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 2021

DEGREE Bachelor of Science MAJOR Earth Science (ESC)

NAME _____

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:** SC1101 Science Technology and Truth	**Degree Opt Core** SC1102 Modelling Natural Systems **PREREQ: MA1020** **OR** SC1109 Modelling Natural Systems-Advanced^ **PREREQ: MA1000 OR MA1009**
	Degree Opt Core Breadth-List 1:	**Degree Opt Core Breadth-List 1:**
	Major Core: EV1005 Environmental Processes & Global Change	**Major Core:** EA1110 Evolution of the Earth
	Degree Core: MA1020 Preparatory Math* **This subject is equivalent to QLD-Maths Methods from high school. This core subject may be replaced by an elective if you pass the math competency test.*	**Degree Core:** CH1020 Preparatory Chemistry # *# This subject is equivalent to chemistry from high school. This core subject may be replaced by an elective if you pass the chemistry competency test.*

^ Note- SC1109 is compulsory in the Advanced BSc Program and should be taken instead of SC1102 if you are considering that pathway.

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	**Degree Core:** SC2202 Quantitative Methods in Science **PREREQ: SC1102 OR MA1020 OR MATHS B OR EQUIVALENT** **OR** SC2209 Quantitative Methods in Science-Advanced **PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS**	**Degree Opt Core Skill-List 2:**
	Major Core: EA2006 Hydrology **PREREQ: AT LEAST 12CP LEVEL 1**	**Elective/Minor/2nd Major:**
	Major Core: EV2401 Australian Landscape Processes and Evolution **PREREQ: AT LEAST 12CP LEVEL 1 SUBJECTS**	**Elective/Minor/2nd Major:**
	Major Core: EA2220 Minerals and Magmas **PREREQ: EA1110 AND AT LEAST 9CP LEVEL 1 AN, AR, BZ, EV, MA, MB, PH, SC (BU1004 or BU1104) SUBJECTS** **OR** EA2404 From Icehouse to Greenhouse – *SP2* **PREREQ: AT LEAST 12CP LEVEL 1 SUBJECTS**	**Elective/Minor/2nd Major:**

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: SC3008 Professional Placement - *available any SP*	
	Degree Core: SC3010 Sensors and Sensing for Scientists **PREREQ: SC2202/SC2209**	**Major Core:** EA3110 Sedimentology and Stratigraphy **PREREQ: EA1110**
	Major Core: EA3210 Structural Geology and Tectonics **PREREQ: EA1110**	**Major Core:** EA3207 Soil Properties and Processes for Science
	Elective/Minor/2nd Major:	**Elective/Minor/2nd Major:**
	Elective/Minor/2nd Major:	

Further Degree Options:

Breadth-List 1:	
Study Period 1 – SP1	**Study Period 2 – SP2**
CP1401 Problem Solving and Programming I **OR** CP1404 Programming II **PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201** *both subjects available in SP1 and SP2 *****	
BM1000 Introductory Biochemistry and Microbiology – *TSV only* **PREREQ: CH1020 OR SENIOR CHEMISTRY**	BS1001 Introduction to Biological Processes
BZ1006 Diversity of Life – *CNS only*	CH1002 Chemistry: Principles & Applications – *TSV only* **PREREQ: CH1001 OR CH1011**
BS1007 Introduction to Biodiversity – *TSV only*	MA1003 Mathematical Techniques **PREREQ: MA1000 OR MA1011 OR MA1009**
CH1001 Chemistry: A Central Science **PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY**	PH1007 Advanced Stream Physics 2 – *TSV only* **PREREQ: ((MATHS B OR EQUIVALENT OR MA1020) AND PH1005) OR (PHYSICS AND MATHS C)**
EG1000 Engineering 1	
MA1000 Mathematical Foundations **PREREQ: MA1020 OR MATHEMATICS B OR MATHS C**	
PH1005 Advanced Stream Physics 1 **PREREQ: Maths B OR MA1020 OR MA1000 OR MA1008.**	

*****CP1404 has been added to the structure from 2019. We would prefer if you would take CP1404.*

Skill-List 2:	
Study Period 1 – SP1	**Study Period 2 – SP2**
CP2404 Database Modelling	EV2502 Introduction to Geographic Information Systems **PREREQ: 12CP LEVEL 1 SUBJECTS**
	MA2210 Linear Algebra **PREREQ: MA1003**
	CH2103 Analytical Chemistry – *TSV only* **PREREQ: CH1001 OR CH1011**