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 Marine Science STREAM Maths

NAME _____

To assist you with subject information, and to avoid and clashes/issues, you **MUST** consult with your CSE Course/Major Advisor if choosing this stream.
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:** BS1007 Introduction to Biodiversity	**Degree Core:** EA1110 Evolution of the Earth
	Degree Core: CH1001 Chemistry: A Central Science **PREREQ: CH1020#**	**Degree Opt Core:** SC1102 Modelling Natural Systems **PREREQ: MA1020*** **OR** SC1109 Modelling Natural Systems – Advanced^ **PREREQ: MA1000 OR MA1009**
	Degree Core: MA1000 Mathematical Foundations **PREREQ: MA1020***	**Degree Core:** MB1110 Introductory Marine Science **PREREQ: MA1020* AND CH1020#**
	Elective/Minor: **see notes below on options*	**Stream Core:** MA1003 Mathematical Techniques **PREREQ: MA1000 OR MA1011 OR MA1009**

^SC1109 has more math-based tutorials and requires MA1000. It may be taken as an alternative to SC1102 if you would prefer. It is a required subject in the Advanced Science program if you are considering that pathway.

*Missing Chemistry from high school, select CH1020 Preparatory Chemistry – **SP3 (Jan-Feb)**
*Missing high school intermediate level Mathematics B, select MA1020 Preparatory Mathematics – **SP3 (Jan-Feb)**

If you require BOTH CH1020 & MA1020 please speak with your course advisor prior to beginning your studies.
To avoid progression issues it is recommended you take CH1020 in SP3, MA1020 in SP1 and discuss taking MA1000 in SP2 with you course advisor.

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	**Degree Opt Core:** SC2202 Quantitative Methods in Science **PREREQ: SC1102 OR MA1020 OR MATH B OR EQUIVALENT** **OR** SC2209 Quantitative Methods in Science-Advanced **PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS**	**Degree Core:** EV2502 Introduction to Geographic Information Systems **PREREQ: 12CP LEVEL 1 SUBJECTS**
	Degree Core: CH2042 Marine Chemistry and Chemical Ecology **PREREQ: CH1001 OR CH1011**	**Degree Core:** PH2006 Marine Physics
	Degree Core: MB2050 Functional Biology of Marine Organisms **PREREQ: BS1007 OR BZ1006**	**Stream Options List 1:**
	Stream Options List 1:	**Elective/Minor:**

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: MB3050 Biological Oceanography **PREREQ: BS1007 AND MB2050 AND SC2202/SC2209**	**Degree Core** EA3110: Sedimentology and Stratigraphy **PREREQ: EA1110**
	Degree Core: EV3406 Coral Reef Geomorphology **PREREQ: 12CP LEVEL 2 INCLUDING 6CP LEVEL 2 EV OR EA OR MB SUBJECTS**	**Degree Core:** MB3270 Coastal, Estuarine and Mangrove Ecosystems **PREREQ: BS1007 OR MB2050 OR SC2202/SC2209**
	Degree Core: SC3010 Sensors and Sensing for Scientists **PREREQ: SC2202/SC2209**	**Degree Core:** ~~SC3232: Marine Sensor Technologies and Applications~~ ~~**PREREQ:PH2222 OR SC3010**~~ *This core subject is not currently available, replace with:* EV3401 Coastal and Catchment Geomorphology **PREREQ: 12CP LEVEL 2 INCLUDING 6CP LEVEL 2 EV OR EA SUBJECTS**
	Stream Options List 1:	

SP11 (Nov-Dec)
Degree Core: EA3640 Advanced Environmental and Marine Geoscience Technologies and Applications **PREREQ: 12CP LEVEL 2 AND 3CP LEVEL 1 EA OR MB SUBJECTS**

Stream Options List 1:	
Study Period 1 - SP1	**Study Period 2 - SP2**
MA2000 Mathematics for Scientists and Engineers **PREREQ: MA1003**	MA2210 Linear Algebra **PREREQ: MA1003**
CP2404 Database Modelling	MA2405 Advanced Statistical Modelling **PREREQ: MA1401 OR MA2401 OR SC2202/SC2209**
	MA3405 Statistical Data Mining for Big Data **PREREQ: MA2405 OR MA2000 OR SC2202/SC2209**

PROFESSIONAL ACCREDITATION STATUS

Environmental Institute of Australia and New Zealand accredits individual graduates but not courses - http://www.eianz.org/

ADDITIONAL COURSE RULES

Study plan may only include a maximum of 30 credit points of Level 1 subjects and a minimum of 18 credit points must be taken at Level 3.

ADDITIONAL COMPLETION REQUIREMENTS

Applicants who select SC1102: Modelling Natural Systems as a part of their degree but have not completed high school intermediate level Mathematics B (or equivalent) must also select MA1020: Preparatory Mathematics as part of their study plan.

MA1020 is available on both campuses in full-semester and intensive mode. The intensive mode option typically starts earlier than the standard course commencement date. Contact JCU on 1800 246 446 for more information. Students can enrol in BU1007 without completing high school intermediate level Mathematics B (or equivalent).

This course involves mandatory field work and any costs associated with the field work will be at the student's expense.

COURSE PROGRESSION REQUISITES

Must complete 18 credit points of Level 1 or 2 subjects before attempting any Level 3 subject.

ADDITIONAL INFORMATION

Bachelor of Marine Science handbook