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

Mid-Year Entry 2021

DEGREE Bachelor of Marine Science STREAM Physics

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 2 - SP2
Year 1	*MID-YEAR ENTRY*	**Degree Core:** EA1110 Evolution of the Earth
		Degree Opt Core: SC1102 Modelling Natural Systems **PREREQ: MA1020*** **OR** SC1109 Modelling Natural Systems – Advanced^ **PREREQ: MA1000 OR MA1009**
		Degree Core: MB1110 Introductory Marine Science **PREREQ: MA1020* AND CH1020+**
		Elective:

^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 high school chemistry, select CH1020- Preparatory Chemistry in SP2.

*Missing high school intermediate level Mathematics B, select MA1020 Preparatory Mathematics in SP2. You will NOT be able to take SC1102 in SP2 in Year 1 and you will need to overload with 5 subjects in a later study period to catch up or extend your degree by a semester.

If you require BOTH CH1020 & MA1020 please speak with your course advisor prior to beginning your studies.

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	**Degree Core:** BS1007 Introduction to Biodiversity	**Degree Core:** EV2502 Introduction to Geographic Information Systems **PREREQ: 12CP LEVEL 1 SUBJECTS**
	Degree Core: CH1001 Chemistry: A Central Science **PREREQ: CH1020**	**Degree Core:** PH2006 Marine Physics
	Degree Core: MA1000 Mathematical Foundations **PREREQ: MA1020**	**Elective:** MA1003 Mathematical Techniques-*REQUIRED for Physics stream* **PREREQ: MA1000 OR MA1011 OR MA1009**
	Stream Core: PH1005 Advanced Stream Physics 1 **PREREQ: Maths B OR MA1020* OR MA1000 OR MA1008**	

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	**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** EA3110: Sedimentology and Stratigraphy **PREREQ: EA1110**
	Degree Core: CH2042 Marine Chemistry and Chemical Ecology **PREREQ: CH1001 OR CH1011**	**Degree Core:** MB3270 Coastal, Estuarine and Mangrove Ecosystems **PREREQ: BS1007 OR MB2050 OR SC2202/SC2209**
	Degree Core: MB2050 Functional Biology of Marine Organisms **PREREQ: BS1007 OR BZ1006**	**Degree Core:** ~~SC3232: Marine Sensor Technologies and Applications~~ Not currently available, replace with EV3401 ~~**PREREQ:PH2222 OR SC3010**~~ EV3401 Coastal and Catchment Geomorphology **PREREQ: 12CP LEVEL 2 INCLUDING 6CP LEVEL 2 EV OR EA SUBJECTS**
	Stream Options-List 1:	**Stream Core:** PH3006 Oceanography and Meteorology **PREREQ: MA2000 AND PH2019**

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**

	Study Period 1 - SP1	
Year 4	**Degree Core:** MB3050 Biological Oceanography **PREREQ: BS1007 AND MB2050 AND SC2202/SC2209**	*MID-YEAR COMPLETION*
	Degree Core: EV3406 Coral Reef Geomorphology **PREREQ: 12CP LEVEL 2 INCLUDING 6CP LEVEL 2 EV OR EA OR MB SUBJECTS**	
	Degree Core: SC3010 Sensors and Sensing for Scientists **PREREQ: SC2202/SC2209**	
	Stream Options-List 1:	

List of Subjects Available to this Stream: List 1 **Select any 2 subjects from:**	
Study Period 1 - SP1	**Study Period 2 - SP2**
PH2002 Classical Mechanisms and Quantum Physics 1 **PREREQ: MA1003 AND PH1005**	PH2240 Atomic and Nuclear Physics **PREREQ:PH2002 AND MA1003**
PH2019 Introduction to Electromagnetism Optics and Early Quantum **PREREQ: (EG1012 OR PH1005) AND MA1003**	

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