

RECOMMENDED STUDY PLAN

2021

DEGREE Bachelor of Marine Science

STREAM Physics

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: <u>BS1007</u> Introduction to Biodiversity	Degree Core: <u>EA1110</u> Evolution of the Earth
	Degree Core: <u>CH1001</u> Chemistry: A Central Science PREREQ: CH1020#	Degree Opt Core: <u>SC1102</u> Modelling Natural Systems PREREQ: MA1020* OR <u>SC1109</u> Modelling Natural Systems – Advanced^ PREREQ: MA1000 OR MA1009
	Degree Core: <u>MA1000</u> Mathematical Foundations PREREQ: MA1020*	Degree Core: <u>MB1110</u> Introductory Marine Science PREREQ: MA1020* AND CH1020#
	Stream Core: Major Core: <u>PH1005</u> Advanced Stream Physics 1 PREREQ: Maths B OR MA1020* OR MA1000 OR MA1008	Elective/Minor: *see notes below on options

^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 and discuss taking MA1020 in SP1 and MA1000 in SP2 with you course advisor.

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	Degree Opt Core: <u>SC2202</u> Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MATH B OR EQUIVALENT OR <u>SC2209</u> Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Degree Core: <u>EV2502</u> Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS
	Degree Core: <u>CH2042</u> Marine Chemistry and Chemical Ecology PREREQ: CH1001 OR CH1011	Degree Core: <u>PH2006</u> Marine Physics
	Degree Core: <u>MB2050</u> 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- <i>This core subject is not currently available, replace with:</i> EV3401 Coastal and Catchment Geomorphology PREREQ: 12CP LEVEL 2 INCLUDING 6CP LEVEL 2 EV OR EA SUBJECTS
		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

Stream Options List 1:	
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](#)