

Bachelor of Marine Science (CH1020 and MA1020 required)

This study plan should be used as a general guide for your course. We recommend you consult with your <u>CSE Course/Major Advisor</u> and particularly if your intended enrolment varies from this plan. The information in the study plan is current at the time of creation and may be subject to future change. If you would prefer a part-time study plan, please adjust the below study planner; reviewing subject prerequisites to ensure you are on track for course completion.

Useful study planning/enrolment resources:

To search for information on subjects: <u>Subject Search</u> To register for your classes: <u>Class Registration</u> For important dates check: <u>Academic Calendars</u> Further enrolment resources: <u>Enrolment Resources</u>

	STUDY PERIOD 1		STUDY PERIOD 2
			Course EA1110:03 Evolution of the Earth
Year 1			Course MA1020:03 Prep Mathematics (also available in SP3) or Elective*
		C	CH1020:03 Prep Chemistry ^{Or} Elective [*]
			Course MB1110:03 Introductory Marine Science PREREQ: (Senior Chemistry or CH1020 or CH0020) and (Maths B or MA1020 or MA0020) – allow concurrent for CH1020 and MA1020
MA CH	MA0020/BR0202 completion allows SP1 enrolment in MA1000		nts who have completed eligible senior secondary Maths and ry subjects (or eligible bridging subjects) please refer to the study students meeting Maths and chemistry requirements.



	STUDY PERIOD 1	STUDY PERIOD 2
	Course BS1007:03 Introduction to Biodiversity	Course PH2006:03 Marine Physics OR PH2009:03 Advanced Marine Physics PREREQ: PH1005 and MA1000
ır 2	Course CH1001:03 Chemistry: A Central Science PREREQ: CH1020, CH0020 or EG1010 or High School Senior Chemistry*	Course EV2502:03 Introduction to Geographic Information Systems PREREQ: 12 credit points of Level 1 subjects
Year	Course MA1000 :03 Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or Maths B or Maths C</i>	Course SC1102:03 Modelling Natural Systems PREREQ: MA1020 MA0020 or Senior Mathematics or equivalent or SC1109:03 Modelling Natural Systems-Advanced^ PREREQ: MA1000 or MA1009 ^SC1109 is compulsory in the Advanced Science degree and should be taken instead of SC1102 if you are considering that pathway.
	Elective See List 1 for recommended subject streams	Elective See List 1 for recommended subject streams



	STUDY PERIOD 1	S1	TUDY PERIOD 2
	SC2202:03 Quantitative Methods in Science PREREQ: SC1102 or SC1109 Or SC2209:03 Quantitative Methods in Science-Advanced PREREQ: MA1003 and (SC1109 pus 6 credit points of other Level 1 subjects)	Course EA3110:03 Sed PREREQ: EA1110	imentology and Stratigraphy
	Course CH2042:03 Marine Chemistry and Chemical Ecology PREREQ: CH1001 or CH1011	Course MB3270 :03 Coastal, Estuarine and Mangrove Ecosystems PREREQ: BS1007 or BZ1007 and (MB2050 or BS2460) and (SC2202 or SC2209 or BS2001 or BZ2001)	
Year 3	Course MB2050:03 Functional Biology of Marine Organisms PREREQ: ZL1001 or BZ1004 or AG1004 or BZ1007 or BS1007 or BZ1006	Course EV3401:03 Coastal and Catchment Geomorphology PREREQ: 12 credit points at Level 2 including 6 credit points of Level 2 EV or EA subjects	
	Elective See List 1 for recommended subject streams		
			STUDY PERIOD 11 (Nov-Jan)
			Course EA3640:03 Advanced Environmental and Marine Geoscience Technologies and Applications PREREQ: 12 credit points at level 2 and 3 credits at level 1 EA or MB



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	STUDY PERIOD 1	STUDY PERIOD 2
	Course	
	MB3050:03 Biological Oceanography	
	PREREQ: (BS1007 or BZ1007) and MB2050 and (SC2202 or SC2209 or BS2001 or BZ2001)	
	Course	
4	EV3406:03 Coral Reef Geomorphology	
Year 4	PREREQ: 12 credit points of Level 2 subjects including 6 credit points of Level 2 EV, EA or MB subjects	
	Course	
	SC3010:03 Sensors and Sensing for Scientists	
	PREREQ: BZ2001 or SC2202 or SC2209 or SC2201	
	Elective	
	See List 1 for recommended subject streams	

LIST 1 CHEMISTRY STREAM			
STUDY PERIOD 1	STUDY PERIOD 2		
CH3041:03 Environmental Chemistry PREREQ: CH1001 or CH1011 or EG1010	CH1002:03 Chemistry: Principles and Applications PREREQ: CH1001 or CH1011 and allow concurrent for CH1011 and CH1001		
	CH2310:03 Syntheses and Mechanism in Organic Chemistry PREREQ: CH1001 and CH1002		
	CH2103:03 Analytical Chemistry PREREQ: CH1001 or CH1011		



EARTH SCIENCE STREAM			
STUDY PERIO	01	S	TUDY PERIOD 2
EA3210:03 Structural Geology and Tectonics PREREQ: EA1110 or EA3650:03 Energy Resources and Basin Analysis (SP2) PREREQ: At least 12 credit points of Level 2 subjects including EA2110			's Climate: Past, Present and Future credit points of level 1 subjects
		PREREQ: 12 credit po	and Environmental Geochemistry pints at Level 2 and 3 credit points of level 1 CH points of level 1 EA subjects
	STUDY PERIOD 7 (Jun-Jul) EA2900:03 Introductory Field Geology PREREQ: EA1110 plus at least 9 credit po of level 1 AN, AR, BZ, EV, MA, MB, PH, S (BU1004 or BU1104) subjects		

ENVIRONMENTAL SCIENCE STREAM			
STUDY PERIOD 1		STUDY PERIOD 2	
EV1005:03 Environmental Processes and Global Change			
EV2401:03 Australian Landscape Processes and Evolution PREREQ: At least 12 credit points of level 1 subjects			
STUDY PERIOD 3 (Jan-Feb)	STUDY P (Sep-l		STUDY PERIOD 11 (Nov-Jan)
	EV3506:03 Remote PREREQ: At least 12 cl including EV2502.	0	EV3502:03 Advanced Geographic Information Systems PREREQ: At least 12 credit points at level 2 including EV2502.



FISHERIES STREAM		
STUDY PERIOD 1	S	TUDY PERIOD 2
MB3150:03 Fisheries Science PREREQ: (SC2202 or SC2209 or BS2001 or AG2001) or MB2060 or BS2460		amentals of Ecology ints of level 1 or 2 BZ, BS, or EV subjects
	MB2080:03 Inver PREREQ: BZ1004 or	tebrate Biology AG1004 or BZ1006 or BZ1007 or BS1007
		STUDY PERIOD 11 (Nov-Jan)
		MB3014:03 Managing Tropical Fisheries
		PREREQ: At least 12 credit points at level 2 including 6 credit points of level 2 BZ, BS, EV, or MB subjects

MARINE BIOLOGY STREAM Select 4 subjects from:		
STUDY PERIOD 1	STUDY PERIOD 2	
MB2070:03 Marine Biogeography PREREQ: BS1001 or BZ1001 and (ZL1001 or BZ1004 or AG1004 or BZ1007 or BS1007)	MB2080:03 Invertebrate Biology PREREQ: BZ1004 or AG1004 or BZ1006 or BZ1007 or BS1007	
MB3160:03 Evolution and Ecology of Reef Fishes PREREQ: MB2050 and MB2050 and (MB2060 or BS2460) and a minimum mark of credit in BS2470 or MB2070 (or MB5070 or equivalent)	BS2460:03 Fundamentals of Ecology PREREQ: 6 credit points of level 1 or 2 BZ, BS, or EV subjects	
	MB3190:03 Coral Reef Ecology PREREQ: Credit or better in MB2060 OR BS2460. Prior approval required.	



MATHS STREAM Select MA1003 plus 3 subjects from: **STUDY PERIOD 1 STUDY PERIOD 2** MA2000:03 Mathematics for Scientists and Engineers MA1003:03 Mathematical Techniques PREREQ: MA1003 PREREQ: MA1000 or MA1011 or MA1009 MA2210:03 Linear Algebra PREREQ: MA1003 MA2405:03 Advanced Statistical Modelling PREREQ: MA1401 OR BZ2001 OR MA2401 OR SC2202 OR SC2209 AND MA1000 MA3405:03 Statistical Data Mining for Big Data PREREQ: MA2405 OR MA2000 OR SC2202 OR SC2209 **TRIMESTER 3** CP2404:03 Database Modelling PREREQ: MA1401 OR BZ2001 OR MA2401 OR SC2202 OR SC2209 AND MA1000

PHYSICS STREAM Select PH1005 and PH3006 plus 2 subjects from:		
STUDY PERIOD 1	STUDY PERIOD 2	
PH1005:03 Advanced Stream Physics 1 PREREQ: Maths B or MA1020 or MA0020 or MA1000 or MA1008 OR admission to 116209, 116409 or 116309. Allow concurrent for MA1000 and MA1008	PH3006:03 Oceanography and Meteorology PREREQ: MA2000 and PH2019	
PH2002:03 Classical Mechanics and Quantum Physics 1 PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))	MB2080:03 Invertebrate Biology PREREQ: BZ1004 or AG1004 or BZ1006 or BZ1007 or BS1007	
PH2019:03 Introduction to Electromagnetism Optics and Early Quantum <i>PREREQ: (EG1012 OR PH1005) AND MA1003</i>	PH2240:03 Atomic and Nuclear Physics PREREQ: PH2002 and MA1003	

COURSE NOTES

Students must complete a minimum of 18 credit points of Level 3 subjects.

ADDITIONAL INFORMATION

Bachelor of Marine Science Handbook