

Bachelor of Marine Science (Meets Chemistry and Maths)

This study plan should be used as a general guide for your course. We recommend you consult with your [CSE Course/Major Advisor](#) 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: [Subject Search](#)

To register for your classes: [Class Registration](#)

For important dates check: [Academic Calendars](#)

Further enrolment resources: [Enrolment Resources](#)

	STUDY PERIOD 1	STUDY PERIOD 2
Year 1		Course EA1110:03 Evolution of the Earth
		Course MA1000:03 Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or Maths B or Maths C</i>
		Course MB1110:03 Introductory Marine Science <i>PREREQ: (Senior Chemistry or CH1020 or CH0020) and (Maths B or MA1020 or MA0020) – allow concurrent for CH1020 and MA1020</i>
		Elective 3cp of any Level 1, 2 or 3 science subjects

	STUDY PERIOD 1	STUDY PERIOD 2
Year 2	Course BS1007:03 Introduction to Biodiversity	Course SC1102:03 Modelling Natural Systems <i>PREREQ: MA1020 or MA0020 or Senior Mathematics or equivalent</i> or SC1109:03 Modelling Natural Systems-Advanced^ <i>PREREQ: MA1000 or MA1009</i> ^SC1109 is compulsory in the Advanced Science degree and should be taken instead of SC1102 if you are considering that pathway.
	Course CH1001:03 Chemistry: A Central Science <i>PREREQ: CH1020, CH0020 or EG1010 or High School Senior Chemistry*</i>	Course EV2502:03 Introduction to Geographic Information Systems <i>PREREQ: 12 credit points of Level 1 subjects</i>
	Elective See List 1 for recommended subject streams	Course PH2006:03 Marine Physics OR PH2009:03 Advanced Marine Physics <i>PREREQ: PH1005 and MA1000</i>
	Elective 3cp of any Level 1, 2 or 3 science subjects	Elective See List 1 for recommended subject streams

		STUDY PERIOD 1	STUDY PERIOD 2
Year 3	Course SC2202:03 Quantitative Methods in Science <i>PREREQ: SC1102 or SC1109</i>	or SC2209:03 Quantitative Methods in Science-Advanced <i>PREREQ: MA1003 and (SC1109 plus 6 credit points of other Level 1 subjects)</i>	Course EA3110:03 Sedimentology and Stratigraphy <i>PREREQ: EA1110</i>
	Course CH2042:03 Marine Chemistry and Chemical Ecology <i>PREREQ: CH1001 or CH1011</i>		Course MB3270:03 Coastal, Estuarine and Mangrove Ecosystems <i>PREREQ: BS1007 or BZ1007 and (MB2050 or BS2460) and (SC2202 or SC2209 or BS2001 or BZ2001)</i>
	Course MB2050:03 Functional Biology of Marine Organisms <i>PREREQ: ZL1001 or BZ1004 or AG1004 or BZ1007 or BS1007 or BZ1006</i>	Course EV3401:03 Coastal and Catchment Geomorphology <i>PREREQ: 12 credit points at Level 2 including 6 credit points of Level 2 EV or EA subjects</i>	
	Elective See List 1 for recommended subject streams		
			STUDY PERIOD 11 (Nov-Jan)
			Course EA3640:03 Advanced Environmental and Marine Geoscience Technologies and Applications <i>PREREQ: 12 credit points of Undergraduate subjects including 3 credit points of Level 1 EA or MB subjects</i>
Year 4	Course MB3050:03 Biological Oceanography <i>PREREQ: (BS1007 or BZ1007) and MB2050 and (SC2202 or SC2209 or BS2001 or BZ2001)</i>		
	Course EV3406:03 Coral Reef Geomorphology <i>PREREQ: 12 credit points of Level 2 subjects including 6 credit points of Level 2 EV, EA or MB subjects</i>		
	Course SC3010:03 Sensors and Sensing for Scientists <i>PREREQ: BZ2001 or SC2202 or SC2209 or SC2201</i>		
	Elective See List 1 for recommended subject streams		



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

EARTH SCIENCE STREAM			
STUDY PERIOD 1	STUDY PERIOD 2		
EA3210:03 Structural Geology and Tectonics <i>PREREQ: EA1110</i> or EA3650:03 Energy Resources and Basin Analysis (SP2) <i>PREREQ: At least 12 credit points of Level 2 subjects including EA2110</i>	EA2404:03 Earth's Climate: Past, Present and Future <i>PREREQ: At least 12 credit points of level 1 subjects</i>		
	EA3800:03 Earth and Environmental Geochemistry <i>PREREQ: 12 credit points at Level 2 and 3 credit points of level 1 CH subjects and 3 credit points of level 1 EA subjects</i>		
	<table border="1"> <thead> <tr> <th>STUDY PERIOD 7 (Jun-Jul)</th> </tr> </thead> <tbody> <tr> <td>EA2900:03 Introductory Field Geology <i>PREREQ: EA1110 plus at least 9 credit points of level 1 AN, AR, BZ, EV, MA, MB, PH, SC, (BU1004 or BU1104) subjects</i></td> </tr> </tbody> </table>	STUDY PERIOD 7 (Jun-Jul)	EA2900:03 Introductory Field Geology <i>PREREQ: EA1110 plus at least 9 credit points of level 1 AN, AR, BZ, EV, MA, MB, PH, SC, (BU1004 or BU1104) subjects</i>
STUDY PERIOD 7 (Jun-Jul)			
EA2900:03 Introductory Field Geology <i>PREREQ: EA1110 plus at least 9 credit points of level 1 AN, AR, BZ, EV, MA, MB, PH, SC, (BU1004 or BU1104) subjects</i>			

ENVIRONMENTAL SCIENCE STREAM		
STUDY PERIOD 1		STUDY PERIOD 2
EV1005:03 Environmental Processes and Global Change		
EV2401:03 Australian Landscape Processes and Evolution <i>PREREQ: At least 12 credit points of level 1 subjects</i>		
STUDY PERIOD 3 (Jan-Feb)	STUDY PERIOD 9 (Sep-Nov)	STUDY PERIOD 11 (Nov-Jan)
	EV3506:03 Remote Sensing <i>PREREQ: At least 12 credit points at level 2 including EV2502.</i>	EV3502:03 Advanced Geographic Information Systems <i>PREREQ: At least 12 credit points at level 2 including EV2502.</i>

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

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

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

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

COURSE NOTES

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

ADDITIONAL INFORMATION

[Bachelor of Marine Science Handbook](#)