

Bachelor of Science

MAJOR **Marine Biology**

SECOND MAJOR **Aquaculture Science and Technology**

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](#)

Year 1	STUDY PERIOD 1	STUDY PERIOD 2
	Course SC1101:03 Science Technology and Truth	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>
	Course MA1020:03 Preparatory Mathematics or Elective (only if already satisfied via previous study)	Course CH1020:03 Preparatory Chemistry or Elective (only if already satisfied via previous study)
	Major BS1007:03 Introduction to Biodiversity	Major BS1001:03 Introduction to Biological Processes
	Second Major Select a subject from List 1 (Breadth Subjects)	Second Major Select a subject from List 1 (Breadth Subjects)

^Note: SC1109 is compulsory in the Adv BSc Program and should be taken instead of SC1102 if you are considering that pathway.

Year 2	STUDY PERIOD 1	STUDY PERIOD 2
	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 level 1 subjects</i>	Course Select 3 credit points of subjects from List 2 (Skill Subjects)
	Major BS2470:03 Evolution <i>PREREQ: BZ1001 OR BS1001 OR BZ1005</i>	Major BS2460:03 Fundamentals of Ecology <i>PREREQ: 6 credit points of Level 1 or 2 BZ, BS or EV subjects.</i>
	Major MB2050:03 Functional Biology of Marine Organisms <i>PREREQ: ZL1001 or BZ1004 or AG1004 or BZ1007 or BS1007 or BZ1006</i>	Second Major Elective
	Second Major AQ2001:03 Introduction to Aquaculture <i>PREREQ: At least 12 credit points of Level 1 science BS, BZ, CH, EA, EV, MA, MB, PH or SC subjects</i>	Elective

Year 3	STUDY PERIOD 1		STUDY PERIOD 2	
	Major MB3050:03 Biological Oceanography <i>PREREQ: (BS1007 or BZ1007) and MB2050 and (SC2202 or SC2209 or BS2001 or BZ2001).</i>		Course SC3008:03 Professional Placement <i>PREREQ: Students must have successfully completed 12 cp of second year.</i> <i>Enrolment is restricted to students with an approved placement</i>	
	Major MB3210:03 Life History and Evolution of Reef Corals <i>PREREQ: (SC2202 or SC2209 or BS2001 or BZ2001 or AG2001) and at least a result of credit in MB2060 or BS2460</i> or MB3160:03 Evolution and Ecology of Reef Fishes <i>PREREQ: MB2050 and (MB2060 or BS2460) and a minimum mark of credit in BS2470 or MB2070.</i>		Major MB3190:03 Coral Reef Ecology <i>PREREQ: Credit or better in MB2060 or BS2460</i> or 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>	
	Second Major AQ3002:03 Aquaculture: Feeds and Nutrition <i>PREREQ: At least 12 credit points of Level 2 AQ, BC, BZ, BS, CH, EA, EV, MA, MB or PH science subjects and 3 credit points of level 2 aquaculture subjects.</i>			
	Second Major MI2031:03 Diagnosis of Bacterial Diseases in Aquaculture			
	STUDY PERIOD 3 (Jan-Feb)		STUDY PERIOD 7 (Jun-Jul)	
	STUDY PERIOD 10 (Nov-Jan)			
Second Major AQ3015:03 Sustainable Aquaculture <i>PREREQ: 12 credit points of level 2 subjects</i>		Second Major AQ3003:03 Aquaculture: Propagation - SP7 <i>PREREQ: AQ2001 AND at least 12 credit points of Level 2 science AQ, BC, BS, BZ, CH, EA, EV, MA, MB, PH, or SC subjects.</i> or AQ3004:03 Aquaculture: Stock Improvement – SP10 <i>PREREQ: At least 12 credit points of Level 2 AQ, BC, BZ, CH, EA, EV, MA, MB or PH science subjects and 3 credit points of level 2 aquaculture subjects.</i>		

BREADTH SUBJECTS - LIST 1		
STUDY PERIOD 1		STUDY PERIOD 2
BM1000:03 Introductory Biochemistry and Microbiology <i>PREREQ: Allow concurrent enrolment in CH1020, CH0020 or Senior Chemistry</i>		BS1001:03 Introduction to Biological Processes
BS1007:03 Introduction to Biodiversity		CH1002:03 Chemistry: Principles and Applications <i>PREREQ: CH1001 OR CH1011 and allow concurrent for Ch1011 and CH1001</i>
CH1001:03 Chemistry: A Central Science <i>PREREQ: CH1020, CH0020 or EG1010 or High School Senior Chemistry</i>		EA1110:03 Evolution of the Earth
EG1000:03 Engineering 1		MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>
EV1005:03 Environmental Processes and Global Change		MA1580:03 Foundations of Data Science <i>PREREQ: MA1000 or MA1020 or MA0020 or Maths B</i>
MA1000:03 Mathematical Foundation <i>PREREQ: MA1020 or MA0020 or Maths B or Maths C</i>		PH1007:03 Advanced Stream Physics 2 <i>PREREQ: ((Maths B or equivalent or MA1020 or MA0020) and PH1005) or (Physics and Maths C)</i>
PH1005:03 Advanced Stream Physics 1 <i>PREREQ: MA1000</i>		
TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
CP1401:03 Problem Solving and Programming I	CP1401:03 Problem Solving and Programming I <i>*External</i>	CP1404:03 Programming II <i>PREREQ: CP1801 or CP1401 or CP1200 or EG1002 or CP2200 or SC1201</i>
	CP1404:03 Programming II <i>*External</i>	

SKILL SUBJECTS - LIST 2		
STUDY PERIOD 1		STUDY PERIOD 2
MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>		CH2103:03 Analytical Chemistry <i>PREREQ: CH1001 OR CH1011</i>
MA2830 Data Visualisation		EV2502:03 Introduction to Geographic Information Systems <i>PREREQ: At least 12 credit points of level 1 subjects</i>
SC3010:03 Sensors and Sensing for Scientists <i>PREREQ: SC2202 OR (SC2209 OR SC2201 OR BZ2001)</i>		MA2210:03 Linear Algebra <i>PREREQ: MA1003</i>
		TRIMESTER 3
		CP2404:03 Database Modelling CP2404:03 Database Modelling- <i>*EXTERNAL OFFERING</i>

ADDITIONAL INFORMATION

A maximum of 30 credit points may be taken at Level 1.

A minimum of 18 credit points of science subjects must be taken at Level 3 or higher.

COURSE HANDBOOK

[Bachelor of Science Handbook](#)

[Marine Biology Major](#)

[Aquaculture Science and Technology Major](#)