

# Bachelor of Advanced 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](#)

*\*NOTE- students studying this as a second major in conjunction with the Marine Biology Major have subject overlaps. Subject content contained in BS1007, BS1001 and BS2470 is completed as part of the Marine Biology Major and this has been taken into account in your study plan.*

Year 1	STUDY PERIOD 1		STUDY PERIOD 2	
	Course	<b>SC1101:03</b> Science, Technology and Truth	Course	<b>MA1003:03</b> Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>
	Course	<b>MA1000:03</b> Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or Maths C</i>	Course	<b>SC1109:03</b> Modelling Natural Systems-Advanced <i>PREREQ: MA1000 or MA1009</i>
	Course	<b>CH1020:03</b> Preparatory Chemistry <i>(or any Level 1, 2, 3 or 5 subject if already satisfied via previous study)</i>	Major	<b>BS1001:03</b> Introduction to Biological Processes
	Major	<b>BS1007:03</b> Introduction to Biodiversity	Second Major	Select 3 credit points of subjects from <b>List 1 (Breadth Subjects)</b>

Year 2	STUDY PERIOD 1		STUDY PERIOD 2	
	Course SC2209:03 Quantitative Methods in Science-Advanced PREREQ: MA1003 and (SC1109 plus 6 credit points of other Level 1 subjects)		Course Select 3 credit points of subjects from List 1 (Advanced Skill Subjects)	
	Major BS2470:03 Evolution PREREQ: BZ1001 or BS1001 or BZ1005		Major BS2460:03 Fundamentals of Ecology PREREQ: 6 credit points of Level 1 or 2 BZ/BS or EV subjects	
	Major MB2050:03 Functional Biology of Marine Organisms PREREQ: ZL1001 or BZ1004 or AG1004 or BZ1007 or BS1007 or BZ1006		Second Major Select 3 credit points of subjects from List 1 (Breadth Subjects)	
	Second Major AQ2001:03 Introduction to Aquaculture PREREQ: At least 12 credit points of Level 1 science BS, BZ, CH, EA, EV, MA, MB, PH or SC subject			
	STUDY PERIOD 3 (Jan-Feb)		STUDY PERIOD 7 (Jun-Jul)	
			STUDY PERIOD 10 (Nov-Jan)	
		Second Major AQ3003:03 Aquaculture: Propagation (SP7) 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. OR AQ3004:03 Aquaculture: Stock Improvement (SP10) 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.		

Year 3	STUDY PERIOD 1		STUDY PERIOD 2	
	<p>Major</p> <p><b>MB3210:03</b> 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></p> <p>OR</p> <p><b>MB3160:03</b> Evolution and Ecology of Reef Fishes <i>PREREQ: MB2050 and (MB2060 or BS2460) and a minimum mark of credit in BS2470 or MB2070 (or MB5070 or equivalent)</i></p>		<p>Course</p> <p><b>SC3003:03</b> Science Research Internship (SP1, SP2, SP3, SP7, SP11) <i>PREREQ: 15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC science level 2 subjects</i></p> <p>OR</p> <p><b>SC3008:03</b> Professional Placement* (SP1, SP2, SP3, SP7, SP11) <i>PREREQ: Must have successfully completed 12 second year credit points. Enrolment is restricted to students with an approved placement</i></p>	
	<p>Major</p> <p><b>MB3050:03</b> Biological Oceanography <i>PREREQ: (BS1007 or BZ1007) and MB2050 and (SC2202 or SC2209 or BS2001 or BZ2001)</i></p>		<p>Major</p> <p><b>MB3190:03</b> Coral Reef Ecology <i>PREREQ: Credit or better in MB2060 or BS2460</i></p> <p>OR</p> <p><b>MB3270:03</b> Wetland and Estuarine Ecosystems <i>PREREQ: BS1007 or BZ1007 and (MB2050 or BS2460) and (SC2202 or SC2209 or BS2001 or BZ2001)</i></p>	
	<p>Second Major</p> <p><b>AQ3002:03</b> 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></p>		<p>Second Major</p> <p>Select 3 credit points of any level 1, 2, 3 or 5 subject</p>	
	<p>Second Major</p> <p><b>MI2031:03</b> Diagnosis of Bacterial Diseases in Aquaculture</p>			
	STUDY PERIOD 3 (Jan-Feb)	STUDY PERIOD 7 (Jun-Jul)	STUDY PERIOD 10 (Nov-Jan)	
	<p>Second Major</p> <p><b>AQ3015:03</b> Sustainable Aquaculture <i>PREREQ: 12 credit points of level 2 subjects</i></p>			

## 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>		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>		

## ADVANCED SKILL SUBJECTS - LIST 1

STUDY PERIOD 1		STUDY PERIOD 2	
BS5260:03 Modelling Ecological Dynamics		BC5203:03 Advanced Bioinformatics	
MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>		CH5002:03 Research Skills and Communication in Chemistry (Advanced) <i>PREREQ: Satisfactory completion of 9 credit points of Level 2, 3 or 5 CH subjects</i>	
<del>EA5409:03 Mineralogy and Geophysics</del>		SC5502:03 Design and Analyses in Ecological Studies	
<del>PH5014:03 Research Skills and Communication in Physics (Advanced)</del>			

#### **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 Advanced Science Handbook](#)

[Marine Biology Major](#)

[Aquaculture Science and Technology Major](#)