

# Bachelor of Science

## MAJOR Marine Biology

## SECOND MAJOR Zoology and Ecology

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 <b>SC1101:03</b> Science, Technology and Truth	Course <b>SC1102:03</b> Modelling Natural Systems <i>PREREQ: MA1020 or MA0020 or Senior Mathematics or equivalent</i> or <b>SC1109:03</b> Modelling Natural Systems-Advanced ^ <i>PREREQ: MA1000 or MA1009</i>
	Course <b>MA1020:03</b> Preparatory Mathematics – <b>SP3</b> or <b>Elective*</b> (only if already satisfied via previous study)	Course <b>CH1020:03</b> Preparatory Chemistry or <b>Elective</b> (if already satisfied via previous study)
	Major <b>BS1007:03</b> Introduction to Biodiversity	Major <b>BS1001:03</b> Introduction to Biological Processes
	Second Major Select 3 credit points of subjects from <b>List 1 (Breadth Subjects)</b>	Second Major Select 3 credit points of subjects from <b>List 1 (Breadth Subjects)</b>

^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 <b>SC2202:03</b> Quantitative Methods in Science <i>PREREQ: SC1102 or SC1109</i> OR <b>SC2209:03</b> 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 <b>List 2</b> (Skill Subjects)	
	Major <b>BS2470:03</b> Evolution <i>PREREQ: BZ1001 or BS1001 or BZ1005</i>		Major <b>BS2460:03</b> Fundamentals of Ecology <i>PREREQ: 6 credit points of level 1 or 2 BZ/BS, or EV subjects</i>	
	Major <b>MB2050:03</b> Functional Biology of Marine Organisms <i>PREREQ: ZL1001 or BZ1004 or AG1004 or BZ1007 or BS1007 or BZ1006</i>		Second Major Select 3 credit points of any level 1, 2, 3 or 5 subjects	
			Second Major Select 3 credit points of any level 2, 3 or 5 subjects	
	STUDY PERIOD 3 (Jan-Feb)	STUDY PERIOD 7 (Jun-Jul)	STUDY PERIOD 10 (Nov-Jan)	
		Second Major <b>BZ2490:03</b> Toolkit for the Field Biologist <i>PREREQ: SC2202 or SC2209</i>		

Year 3	STUDY PERIOD 1		STUDY PERIOD 2	
	Course <b>SC3008:03 Professional Placement</b> (SP1, SP2, SP3, SP7, SP11) <i>PREREQ: Students must have successfully completed 12 credit points of second-year subjects.</i> <i>Enrolment is restricted to students with an approved placement</i>		Major <b>MB3190:03 Coral Reef Ecology</b> <i>PREREQ: Credit or better in MB2060 or BS2460</i> OR <b>MB3270:03 Coastal, Estuarine, and Mangrove Ecosystems</b> <i>PREREQ: BS1007 or BZ1007 and (MB2050 or BS2460) and (SC2202 or SC2209 or BS2001 or BZ2001)</i>	
	Major <b>MB3050:03 Biological Oceanography</b> <i>PREREQ: (BS1007 or BZ1007) and MB2050 and (SC2202 or SC2209 or BS2001 or BZ2001)</i>		Second Major <b>BZ3220:03 Population and Community Ecology</b> <i>PREREQ: (SC2202 or SC5202 or SC2209 or BS2001 or BZ2001 or AG2001) and (BS2460 or MB2060 or 3 credit points of Level 2 BZ)</i>	
	Major <b>MB3210:03 Life History and Evolution of Reef Corals</b> OR <b>MB3160:03 Evolution and Ecology of Reef Fishes</b> <i>PREREQ: Prior Approval, MB2050, and (MB2060 or BS2460) and a minimum mark of CREDIT in BS2470 or MB2070 (or MB5070 or equivalent)</i>		Second Major <b>BZ3061:03 Behavioural Ecology (SP2)</b> <i>PREREQ: 6 credit points of level 2 science subjects</i> OR <b>BZ3745:3 Tropical Entomology (SP3)</b> <i>PREREQ: (SC2202 or SC5202 or SC2209 or BZ2001 or BS2001 or AG2001) and (BZ1006 or BS1007 or BZ1007 or ZL1001 or BZ1004 or AG1004)</i>	
	Elective			
	STUDY PERIOD 3 (Jan-Feb)	STUDY PERIOD 7 (Jun-Jul)	STUDY PERIOD 10 (Nov-Jan)	
			Second Major <b>BZ3230:03 Ecological Research Methods</b> <i>PREREQ: (SC2202 or SC2209 or BS2001 or BZ2001) and (BS2460 or BZ2490 or BZ2440 or BZ2880)</i> OR <b>BZ3001:03 Ecological Research Methods</b> <i>PREREQ: Prior Approval</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>
MA2830:03 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: BZ2001 or SC2202 or SC2209 or SC2201</i>		MA2210:03 Linear Algebra <i>PREREQ: MA1003</i>
		TRIMESTER 3
		CP2404:03 Database Modelling

### **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](#)

[Zoology and Ecology Major](#)