



Bachelor of Advanced Science

MAJOR **Zoology and Ecology**

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](#)

	STUDY PERIOD 1	STUDY PERIOD 2
Year 1	Course SC1101:03 Science Technology and Truth	Course SC1109:03 Modelling Natural Systems-Advanced <i>PREREQ: MA1000 or MA1009</i>
	Course MA1000:03 Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or Maths B OR Maths C</i>	Course MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>
	Major BS1007:03 Introduction to Biodiversity	Major BS1001:03 Introduction to Biological Processes
	Second Major Select a BREADTH SUBJECT-List 1	Second Major Select a BREADTH SUBJECT-List 1

Year 2	STUDY PERIOD 1		STUDY PERIOD 2		
	Course SC2209:03 Quantitative Methods in Science-Advanced <i>PREREQ: MA1003 and SC1109 plus 6 credit points of Level 1 subjects</i>		Course CH1020:03 Preparatory Chemistry or Elective (only if already satisfied via previous study)		
	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>		
	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>		Second Major Select 3 credit points of any Level 1, 2, 3 or 5 subject		
	Second Major MI2031:03 Diagnosis of Bacterial Diseases in Aquaculture				
			STUDY PERIOD 7		
		(Jun-Jul)			
		Major BZ2490:03 Toolkit for the Field Biologist <i>PREREQ: SC2202 or SC2209</i>			

Year 3	STUDY PERIOD 1		STUDY PERIOD 2	
	<p>Course</p> <p>Select Availability in Study Period 1, 2, 3, 7 or 11</p> <p>SC3003:03 Science Research Internship</p> <p><i>PREREQ: 15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC Level 2 subjects</i></p> <p>OR</p> <p>SC3008:03 Professional Placement</p> <p><i>PREREQ: Students must have successfully completed 12 credit points of second year subjects.</i></p> <p><i>Enrolment is restricted to students with an approved placement</i></p>			
	<p>Course</p> <p>Select an ADVANCED SKILL subject-List 1</p>		<p>Major</p> <p>BZ3220:03 Population and Community Ecology</p> <p><i>PREREQ: (SC2202 or SC2209 or BS2001 or BZ2001 or AG2001) and (BS2460 or MB2060 or 3 credit points of Level 2 BZ)</i></p>	
	<p>Second Major</p> <p>AQ3002:03 Aquaculture: Feeds and Nutrition</p> <p><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>Major</p> <p>BZ3061:03 Behavioural Ecology</p> <p><i>PREREQ: SC2202 or SC2209 or SC5202 and 6 credit points of Level 2 science subjects.</i></p> <p>or</p> <p>BZ3745:03 Tropical Entomology – SP3</p> <p><i>PREREQ: (SC2202 or SC2209 or SC5202 or BZ2001 or BS2001 or AG2001) and (BZ1006 or BS1007 or BZ1007 or ZL1001 or BZ1004 or AG1004).</i></p>	
	STUDY PERIOD 3 (Jan-Feb)	STUDY PERIOD 7 (Jun-Jul)		STUDY PERIOD 10 (Nov-Jan)
<p>Second Major</p> <p>AQ3015:03 Sustainable Aquaculture</p> <p><i>PREREQ: 12 credit points of Level 2 subjects</i></p>	<p>Second Major</p> <p>AQ3003:03 Aquaculture: Propagation</p> <p><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></p> <p>or</p> <p>AQ3004:03 Aquaculture: Stock Improvement - SP10</p> <p><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></p>		<p>Major</p> <p>BZ3230:03 Ecological Research Methods</p> <p><i>PREREQ: (SC2202 or SC2209 or BS2001 or BZ2001) and (BS2460 or BZ2490 or BZ2440 or BZ2880)</i></p> <p>or</p> <p>BZ3001:03 Field Studies in the Equatorial Tropics: Borneo</p>	

BREADTH SUBJECTS - LIST 1	
STUDY PERIOD 1	STUDY PERIOD 2
BM1000:03 Introductory Biochemistry and Microbiology	BS1001:03 Introduction to Biological Processes
BS1007:03 Introduction to Biodiversity	CH1002:03 Chemistry: Principles and Applications
CH1001:03 Chemistry: A Central Science	EA1110:03 Evolution of the Earth
EG1000:03 Engineering 1	MA1003:03 Mathematical Techniques
EV1005:03 Environmental Processes and Global Change	MA1580:03 Foundations of Data Science
MA1000:03 Mathematical Foundation	PH1007:03 Advanced Stream Physics 2
PH1005:03 Advanced Stream Physics 1	
TRIMESTER 1	TRIMESTER 3
CP1401:03 Problem Solving and Programming I	CP1404:03 Programming II

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>
[^] EA5409:03 Mineralogy and Geophysics	SC5502:03 Design and Analyses in Ecological Studies
[^] PH5014:03 Research Skills and Communication in Physics (Advanced)	

[^]Note: EA5409 and PH5014 are not offered in 2023

COURSE NOTES

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.

ADDITIONAL INFORMATION

[2023 Bachelor of Advanced Science Handbook](#)

[Zoology and Ecology Major](#)

[Aquaculture Science and Technology Major](#)