

## RECOMMENDED STUDY PLAN

2022

DEGREE Bachelor of Advanced Science MAJOR Marine Biology (MBY)

NAME \_\_\_\_\_ MAJOR Zoology & Ecology (ZAE)

To assist you with subject information, we recommend you consult with your [CSE Course/Major Advisor](#) and refer to [Subject Search](#). If you would prefer a part-time study plan, please adjust the below planner, reviewing subject prerequisites to ensure you are on track for course completion.

	Study Period 1 - SP1	Study Period 2 - SP2
<b>Year 1</b>	<b>Degree Core:</b> <u>SC1101</u> Science Technology and Truth	<b>Degree Core:</b> <u>SC1109</u> Modelling Natural Systems-Advanced <b>PREREQ:</b> MA1000 OR MA1009
	<b>Degree Core:</b> <u>MA1000</u> Mathematical Foundations <b>PREREQ:</b> MA1020 OR MATHEMATICS B OR MATHS C	<b>Degree Core:</b> <u>MA1003</u> Mathematical Techniques <b>PREREQ:</b> MA1000 OR MA1011 OR MA1009
	<b>Major Core:</b> <u>BS1007</u> Introduction to Biodiversity	<b>Major Core:</b> <u>BS1001</u> Introduction to Biological Processes
	Students who have not completed High School Chemistry (or equivalent) must take <b>Degree Core:</b> <u>CH1020</u> Preparatory Chemistry# #This subject is equivalent to chemistry from high school. <b>OR</b> <b>Elective</b> - if student has completed high school level Chemistry or equivalent	<b>Major Core:</b> Select a subject from <u>Breadth-List 1</u>

	Study Period 1 - SP1	Study Period 2 - SP2
<b>Year 2</b>	<u>SC2209</u> Quantitative Methods in Science-Advanced <b>PREREQ:</b> SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	<b>Major Core:</b> <u>BS2460</u> Fundamentals of Ecology <b>PREREQ:</b> 6CP LEVEL 1 OR 2 BZ/BS OR EV SUBJECTS
	<b>Major Core:</b> <u>MB2050</u> Functional Biology of Marine Organisms <b>PREREQ:</b> BS1007	<b>Elective:</b>
	<b>Major Core:</b> <u>BS2470</u> Evolution <b>PREREQ:</b> BS1001	<b>Elective:</b>
	<b>Major Core:</b> Select a subject from <u>Breadth-List 1</u>	

<b>SP7 (Jun-Jul)</b>
<b>Major Core:</b> <u>BZ2490</u> Toolkit for the Field Biologist <b>PREREQ:</b> SC2202/SC2209

		Study Period 1 - SP1	Study Period 2 - SP2
<b>Year 3</b>	<p style="text-align: center;"><b>Degree Option Core:</b>  <u>SC3008</u> Professional Placement            PREREQ: COMPLETED 12CP SECOND YEAR SUBJECTS  <b>OR</b>  <u>SC3003</u> Science Research Internship            PREREQ: 15CP OF AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH OR SC SCIENCE LEVEL 2 SUBJECTS  <i>All available in multiple study periods</i></p>		
	<p><b>Major Core:</b> <u>MB3050</u> Biological Oceanography            PREREQ: BS1007 AND MB2050 AND SC2202/SC2209</p>	<p><b>Degree Core List 1:</b></p>	
	<p><b>Major Option Core:</b>  <u>MB3210</u> Life History and Evolution of Reef Corals            PREREQ: SC2202/SC2209 AND AT LEAST A RESULT OF CREDIT IN BS2460  <b>OR</b>  <u>MB3160</u> Evolution and Ecology of Reef Fishes            PREREQ: MB2050 AND BS2460 AND A MINIMUM RESULT OF CREDIT IN BS2470 OR MB2070</p>	<p><b>Major Option Core:</b>  <u>MB3190</u> Coral Reef Ecology            PREREQ: CREDIT OR BETTER IN BS2460  <b>OR</b>  <u>MB3270</u> Coastal, Estuarine and Mangrove Ecosystems            PREREQ: BS1007 AND (MB2050 OR BS2460) AND SC2202/SC2209</p>	
		<p><b>Major Option Core:</b>  <u>BZ3061</u> Behavioural Ecology (SP2)            PREREQ: SC2202/SC2209 AND 6CP LEVEL 2 SCIENCE  <b>OR</b>  <u>BZ3745</u> – Tropical Entomology (SP3) - <i>CNS ONLY</i>            PREREQ: SC2202/SC2209 /SC5202 AND BS1007</p>	
		<p><b>Major Core:</b> <u>BZ3220</u> Population and Community Ecology            PREREQ: SC2202/SC2209 /SC5202 AND BS2460 OR 3CP LEVEL 2 BZ</p>	
			<b>SP10 (Nov-Feb)</b>
			<p><b>Major Option Core:</b>  <u>BZ3230</u> Ecological Research Methods            PREREQ: SC2202/SC2209 AND (BS2460 OR BZ2880)  <b>OR</b>  <u>BZ3001</u> Field Studies in the Equatorial Tropics: Borneo            ASSUMED KNOWLEDGE – students should have a statistics subject equivalent to SC2202/SC2209 AND an ecology subject equivalent to BS2460.</p>

**Further Degree Options:**

<b>Breadth-List 1:</b>	
<b>Study Period 1 – SP1</b>	<b>Study Period 2 – SP2</b>
<u>BM1000</u> Introductory Biochemistry and Microbiology – <i>TSV only</i> PREREQ: CH1020 OR SENIOR CHEMISTRY	<u>CH1002</u> Chemistry: Principles & Applications – <i>TSV only</i> PREREQ: CH1001 OR CH1011
<u>CH1001</u> Chemistry: A Central Science PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY	<u>EA1110</u> Evolution of the Earth
<u>EG1000</u> Engineering 1	<u>MA1003</u> Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009
<u>EV1005</u> Environmental Processes & Global Change	<u>MA1580</u> Foundations of Data Science PREREQ: MA1000 OR MA1020 OR MATHS B
<u>MA1000</u> Mathematical Foundations PREREQ: MA1020 OR MATHEMATICS B OR MATHS C	<u>PH1007</u> Advanced Stream Physics 2 – <i>TSV only</i> PREREQ: ((MATHS B OR EQUIVALENT OR MA1020) AND PH1005) OR (PHYSICS AND MATHS C)
<u>PH1005</u> Advanced Stream Physics 1 PREREQ: Maths B OR MA1020 OR MA1000 OR MA1008.	
<b>Trimester 1 (Feb-May)</b>	<b>Trimester 3 (Sept-Dec)</b>
<u>CP1401</u> Problem Solving and Programming I	<u>CP1404</u> Programming II PREREQ: CP1401 OR EG1002

<b>Degree Core List 1: Advanced Skill Subjects</b>	
<b>Study Period 1 – SP1</b>	<b>Study Period 2 – SP2</b>
<u>BS5260</u> Modelling Ecological Dynamics	<u>BC5203</u> Advanced Bioinformatics
<u>MA2000</u> Mathematics for Scientists and Engineers	<u>SC5502</u> Design and Analyses in Ecological Studies
<u>EA5409</u> Mineralogy and Geophysics – <i>Not currently offered</i>	<u>CH5002</u> Research Skills and Communication in Chemistry (Adv)
	<u>PH5014</u> Research Skills and Communication in Physics (Advanced) – <i>Not currently offered</i>

**ADDITIONAL COURSE RULES**

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 COURSE REQUIREMENTS**

Some majors require attendance in intensive or mixed mode attendance subjects on either the Townsville or Cairns campus. If students must attend intensive mode classes at a campus other than the one they are enrolled at, they are responsible for their own expenses.

The first year of study may be completed in Cairns. Students must then transfer to Townsville.

**COURSE PROGRESSION REQUISITES**

Must successfully complete 18 credit points of Level 2 science subjects before attempting any Level 5 science subject

**ADDITIONAL INFORMATION**

[Bachelor of Advanced Science course handbook](#)

[Marine Biology major handbook](#)

[Zoology and Ecology major handbook](#)