

RECOMMENDED STUDY PLAN

2022

DEGREE Bachelor of 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
Year 1	Degree Core: <u>SC1101</u> Science Technology and Truth	Degree Option Core <u>SC1102</u> Modelling Natural Systems PREREQ: MA1020 OR <u>SC1109</u> Modelling Natural Systems-Advanced^ PREREQ: MA1000 OR MA1009
	Students who have not completed High School Maths Methods (or equivalent) must take Degree Core: <u>MA1020</u> Preparatory Math* <i>*This subject is equivalent to QLD-Maths Methods from high school.</i> OR Elective - if student has completed high school level Maths Methods or equivalent	Students who have not completed High School Chemistry (or equivalent) must take Degree Core: <u>CH1020</u> Preparatory Chemistry# <i>#This subject is equivalent to chemistry from high school.</i> OR Elective - if student has completed high school level Chemistry or equivalent
	Major Core: <u>BS1007</u> Introduction to Biodiversity	Major Core: <u>BS1001</u> Introduction to Biological Processes
	Major Core: Select a subject from <u>Breadth-List 1</u>	Major Core: Select a subject from <u>Breadth-List 1</u>

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

Year 2	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Option Core: <u>SC2202</u> Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MA1000 OR MATHS B OR EQUIVALENT OR <u>SC2209</u> Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Degree Core Skill-List 2: <i>Subjects available across a number of study periods/trimesters, see list for full availabilities.</i>
	Major Core: <u>MB2050</u> Functional Biology of Marine Organisms PREREQ: BS1007	Major Core: <u>BS2460</u> Fundamentals of Ecology PREREQ: 6CP LEVEL 1 OR 2 BZ/BS OR EV SUBJECTS
	Major Core: <u>BS2470</u> Evolution PREREQ: BS1001	Major Elective:
	Major Elective:	

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

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Option Core: <u>SC3008</u> Professional Placement PREREQ: COMPLETED 12CP SECOND YEAR SUBJECTS AND BE ENROLLED IN THEIR FINAL YEAR OF STUDY OR <u>SC5008</u> Professional Placement – <i>Prior approval required</i> OR <u>SC3901</u> Special Topic 1– <i>Prior approval required</i> <i>All available in multiple study periods</i>	
	Major Core: <u>MB3050</u> Biological Oceanography PREREQ: BS1007 AND MB2050 AND SC2202/SC2209	Major Option Core: <u>MB3190</u> Coral Reef Ecology PREREQ: CREDIT OR BETTER IN BS2460 OR <u>MB3270</u> Coastal, Estuarine and Mangrove Ecosystems PREREQ: BS1007 AND (MB2050 OR BS2460) AND SC2202/SC2209
	Major Option Core: <u>MB3210</u> Life History and Evolution of Reef Corals PREREQ: SC2202/SC2209 AND AT LEAST A RESULT OF CREDIT IN BS2460 OR <u>MB3160</u> Evolution and Ecology of Reef Fishes PREREQ: MB2050 AND BS2460 AND A MINIMUM RESULT OF CREDIT IN BS2470 OR MB2070	Major Option Core: <u>BZ3061</u> Behavioural Ecology (SP2) PREREQ: SC2202/SC2209 AND 6CP LEVEL 2 SCIENCE OR <u>BZ3745</u> – Tropical Entomology (SP3) - <i>CNS ONLY</i> PREREQ: SC2202/SC2209 /SC5202 AND BS1007
	Elective	Major Core: <u>BZ3220</u> Population and Community Ecology PREREQ: SC2202/SC2209 /SC5202 AND BS2460 OR 3CP LEVEL 2 BZ

SP10 (Nov-Feb)
Major Option Core: <u>BZ3230</u> Ecological Research Methods PREREQ: SC2202/SC2209 AND (BS2460 OR BZ2880) OR <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.

Further Degree Options:

Breadth-List 1:	
Study Period 1 – SP1	Study Period 2 – SP2
<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.	
Trimester 1 (Feb-May)	Trimester 3 (Sept-Dec)
<u>CP1401</u> Problem Solving and Programming I	<u>CP1404</u> Programming II PREREQ: CP1401 OR EG1002

Skill-List 2:	
Study Period 1 – SP1	Study Period 2 – SP2
<u>MA2000</u> Mathematics for Scientists and Engineers PREREQ: MA1003	<u>CH2103</u> Analytical Chemistry – <i>TSV only</i> PREREQ: CH1001 OR CH1011
<u>MA2830</u> Data Visualisation	<u>EV2502</u> Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS
<u>SC3010</u> Sensors and Sensing for Scientists PREREQ: SC2202/SC2209	<u>MA2210</u> Linear Algebra PREREQ: MA1003
	Trimester 3 (Sept-Dec)
	<u>CP2404</u> Database Modelling

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 1 and 2 science subjects before attempting any Level 3 science subject

COURSE INCLUDES MANDATORY PROFESSIONAL PLACEMENT(S)

Yes

ADDITIONAL INFORMATION

[Bachelor of Science course handbook](#)

[Marine Biology major handbook](#)

[Zoology and Ecology major handbook](#)