

RECOMMENDED STUDY PLAN

2022

DEGREE Bachelor of Advanced Science MAJOR Marine Biology (MBY)

NAME _____ MAJOR Aquaculture Science and Technology (AQT)

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

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	<u>SC2209</u> Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Major Core: <u>BS2460</u> Fundamentals of Ecology PREREQ: 6CP LEVEL 1 OR 2 BZ/BS OR EV SUBJECTS
	Major Core: <u>MB2050</u> Functional Biology of Marine Organisms PREREQ: BS1007	Major Core: Select a subject from <u>Breadth-List 1</u>
	Major Core: <u>BS2470</u> Evolution PREREQ: BS1001	Elective:
	Major Core: <u>AQ2001</u> Introduction to Aquaculture PREREQ: 12CP LEVEL 1 SCIENCE (BZ, CH, EA, EV, MA, MB, PH OR SC SUBJECTS)	

SP7 (Jun-Jul)
Major Option Core: <u>AQ3003</u> Aquaculture: Propagation – SP7 PREREQ: AQ2001 AND 12CP LEVEL 2 SCIENCE SUBJECTS (AQ, BC, BS, BZ, CH, EA, EV, MA, MB, PH, OR SC) OR <u>AQ3004</u> Aquaculture: Stock Improvement – SP10 PREREQ: (12CP LEVEL 2 AQ, BC, BZ, BS, CH, EA, EV, MA, MB OR PH SCIENCE SUBJECTS) AND (3CP LEVEL 2 AQUACULTURE SUBJECTS).

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	Degree Option Core: <u>SC3008</u> Professional Placement PREREQ: COMPLETED 12CP SECOND YEAR SUBJECTS OR <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>	
	Major Core: <u>MB3050</u> Biological Oceanography PREREQ: BS1007 AND MB2050 AND SC2202/SC2209	Degree Core List 1:
	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>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 Core: <u>AQ3002</u> Aquaculture: Feeds and Nutrition PREREQ: (12CP LEVEL 2 AQ, BC, BZ, BS, CH, EA, EV, MA, MB OR PH SCIENCE SUBJECTS) AND (3CP LEVEL 2 AQUACULTURE SUBJECTS).	
	Major Core: <u>MI2031</u> Diagnosis of Bacterial Diseases in Aquaculture	
	SP3 (Jan-Feb)	
	Major Core: <u>AQ3015</u> Sustainable Aquaculture PREREQ: 12CP LEVEL 2 SUBJECTS	

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

Degree Core List 1: Advanced Skill Subjects	
Study Period 1 – SP1	Study Period 2 – SP2
<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](#)

[Aquaculture Science and Technology major handbook](#)