

The information provided is designed to provide helpful information on your study plan. Changes to subject information after this time may affect your study plan. Please refer to the enrolment resources for up to date information.

RECOMMENDED STUDY PLAN

2022

DEGREE Bachelor of Science	MAJOR Zoology & Ecology (ZAE)
NAME	MAJOR Aquaculture Science and Technology (AQT)

To assist you with subject information, we recommend you consult with your <u>CSE Course/Major Advisor</u> and refer to <u>Subject Search</u>. 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
	Degree Core: SC1101 Science Technology and Truth	Degree Option Core SC1102 Modelling Natural Systems PREREQ: MA1020 OR SC1109 Modelling Natural Systems-Advanced^ PREREQ: MA1000 OR MA1009
Year 1	Students who have not completed High School Maths Methods (or equivalent) must take Degree Core: MA1020 Preparatory Math* *This subject is equivalent to QLD-Maths Methods from high school. OR	Students who have not completed High School Chemistry (or equivalent) must take Degree Core: CH1020 Preparatory Chemistry# #This subject is equivalent to chemistry from high school. OR
	Elective - if student has completed high school level Maths Methods or equivalent	Elective - if student has completed high school level Chemistry or equivalent
	Major Core: <u>BS1007</u> Introduction to Biodiversity	Major Core: BS1001 Introduction to Biological Processes
	Major Core: Select a subject from Breadth-List 1	Major Core: Select a subject from Breadth-List 1

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

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	Degree Option Core: SC2202 Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MA1000 OR MATHS B OR EQUIVALENT OR SC2209 Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Degree Core <u>Skill-List 2</u> : Subjects available across a number of study periods/trimesters, see list for full availabilities.
	Major Core: <u>BS2470</u> Evolution PREREQ: BS1001 OR BZ1005	Major Core: BS2460 Fundamentals of Ecology PREREQ: 6CP OF LEVEL 1 SUBJECTS OR 2 BS/BZ/EV SUBJECTS
	Major Core: AQ2001 Introduction to Aquaculture PREREQ: 12CP LEVEL 1 SCIENCE (BZ, CH, EA, EV, MA, MB, PH OR SC SUBJECTS)	Major Elective:
	Major Core: MI2031 Diagnosis of Bacterial Diseases in Aquaculture	

SP7 (Jun-Jul)

Major Core: <u>BZ2490</u> Toolkit for the Field Biologist PREREQ: SC2202/SC2209

	Study Period 1	L - SP1	Stu	dy Period 2 - SP2
	Degree Option Core: SC3008 Professional Placement PREREQ: COMPLETED 12CP SECOND YEAR SUBJECTS AND BE ENROLLED IN THEIR FINAL YEAR OF STUDY OR SC5008 Professional Placement — Prior approval required			
Year 3	OR SC3901 Special Topic 1— Prior approval required All available in multiple study periods			
	Major Core: AQ3002 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 Option Core: BZ3061 Behavioural Ecology (SP2) PREREQ: SC2202/SC2209 AND 6CP LEVEL 2 SCIENCE OR BZ3745 — Tropical Entomology (SP3) - CNS ONLY PREREQ: SC2202/SC2209 /SC5202 AND BS1007	
	Elective		Major Core: BZ3220 Population and Community Ecology PREREQ: SC2202/SC2209 /SC5202 AND BS2460 OR 3CP LEVEL 2 BZ	
SP3 (Jan-Feb)		O	lun-Jul) PR Nov-Jan)	SP10 (Nov-Feb)
Major Core: AQ3015 Sustainable Aquaculture PREREQ: 12CP LEVEL 2 SUBJECTS		Major Option Core: AQ3003 Aquaculture Propagation – SP7 PREREQ: AQ2001 AND 120 SUBJECTS (AQ, BC, BS, BZ, OR SC) OR AQ3004 Aquaculture Stock Improvement – PREREQ: (12CP LEVEL 2 AC MA, MB OR PH SCIENCE SI 2 AQUACULTURE SUBJECT	: CP LEVEL 2 SCIENCE CH, EA, EV, MA, MB, PH, : - SP10 Q, BC, BZ, BS, CH, EA, EV, UBJECTS) AND (3CP LEVEL	Major Option Core: BZ3230 Ecological Research Methods PREREQ: SC2202/SC2209 AND (BS2460 OR BZ2880) OR BZ3001 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
BM1000 Introductory Biochemistry and Microbiology – TSV only PREREQ: CH1020 OR SENIOR CHEMISTRY	CH1002 Chemistry: Principles & Applications – TSV only PREREQ: CH1001 OR CH1011
CH1001 Chemistry: A Central Science PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY	EA1110 Evolution of the Earth
EG1000 Engineering 1	MA1003 Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009
EV1005 Environmental Processes & Global Change	MA1580 Foundations of Data Science PREREQ: MA1000 OR MA1020 OR MATHS B
MA1000 Mathematical Foundations PREREQ: MA1020 OR MATHEMATICS B OR MATHS C	PH1007 Advanced Stream Physics 2 – TSV only PREREQ: ((MATHS B OR EQUIVALENT OR MA1020) AND PH1005) OR (PHYSICS AND MATHS C)
PH1005 Advanced Stream Physics 1 PREREQ: Maths B OR MA1020 OR MA1000 OR MA1008.	

Trimester 1 (Feb-May)

CP1401 Problem Solving and Programming I

Trimester 3 (Sept-Dec)
CP1404 Programming II PREREQ: CP1401 OR EG1002

Skill-List 2:	
Study Period 1 – SP1	Study Period 2 – SP2
MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003	CH2103 Analytical Chemistry – TSV only PREREQ: CH1001 OR CH1011
MA2830 Data Visualisation	EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS
SC3010 Sensors and Sensing for Scientists PREREQ: SC2202/SC2209	MA2210 Linear Algebra PREREQ: MA1003

Trimester 3 (Sept-Dec)
CP2404 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.

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
Zoology & Ecology major handbook
Aquaculture Science and Technology major handbook