

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

Bachelor of Advanced Science	MAJOR Zoology and Ecology (ZAE)
	MAJOR Aquaculture Science and Technology (AQT)
_	Bachelor of Advanced Science

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	
	Degree Core: SC1101 Science Technology and Truth	Degree Core: SC1109 Modelling Natural Systems- Advanced PREREQ: MA1000 OR MA1009	
	Degree Core: MA1000 Mathematical Foundations PREREQ: MA1020 OR MATHEMATICS B OR MATHS C	Degree Core: MA1003 Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009	
Year 1	Major Core: BS1007 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: CH1020 Preparatory Chemistry# #This subject is equivalent to chemistry from high school. OR	Major Core: Select a subject from Breadth-List 1	
	Elective - if student has completed high school level Chemistry or equivalent		

Year 2	Study Period 1 - SP1	Study Period 2 - SP2
	SC2209 Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Major Core: BS2460 Fundamentals of Ecology PREREQ: 6CP LEVEL 1 OR 2 BZ/BS OR EV SUBJECTS
	Major Core: BS2470 Evolution PREREQ: BS1001	Major Core: Select a subject from Breadth-List 1
	Major Core: AQ2001 Introduction to Aquaculture PREREQ: 12CP LEVEL 1 SCIENCE (BZ, CH, EA, EV, MA, MB, PH OR SC SUBJECTS)	Elective:
	Major Core: MI2031 Diagnosis of Bacterial Diseases in Aquaculture	

SP7 (Jun-Jul)

Major Core:

BZ2490 Toolkit for the Field Biologist

PREREQ: SC2202/SC2209

	Study Period 1	- SP1	Stu	dy Period 2 - SP2
Year 3	PREREQ: 15CP	SC3008 Profe PREREQ: COMPLETED 2 SC3003 Science OF AQ, BC, BS, BZ, CH, EV, E	Option Core: essional Placement L2CP SECOND YEAR SUBJECT OR RESearch Internship EA, MA, MB, PH OR SC SCIEN multiple study periods	
	Major Core: AQ3002 Aquacultu Nutrition PREREQ: (12CP LEVEL 2 AQ, BC, BZ, BS, PH SCIENCE SUBJECTS) AND (3CP LEVEL SUBJECTS).	re: Feeds and CH, EA, EV, MA, MB OR	Degree Core List 1:	
			PREREQ: SC2202/SC2209 /	AND 6CP LEVEL 2 SCIENCE tomology (SP3) - CNS ONLY
	SP3 (Jan-Feb)	SP7 (J	, ,	SC5202 AND BS2460 OR 3CP LEVEL 2 BZ SP10 (Nov-Feb)
Major Option Core: AQ3003 Aquaculture Propagation – SP7 PREREQ: AQ2001 AND 12: SUBJECTS (AQ, BC, BS, BZ, OR SC) OR AQ3004 Aquaculture Stock Improvement - PREREQ: (12CP LEVEL 2 AQ MA, MB OR PH SCIENCE S 2 AQUACULTURE SUBJECTS		CP LEVEL 2 SCIENCE CH, EA, EV, MA, MB, PH, SP10 Q, BC, BZ, BS, CH, EA, EV, JBJECTS) 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	
<u>CH1001</u> 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)
<u>CP1401</u> Problem Solving and Programming I

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

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

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 2 science subjects before attempting any Level 5 science subject

ADDITIONAL INFORMATION

Bachelor of Advanced Science course handbook

Zoology and Ecology major handbook

Aquaculture Science and Technology major handbook