JAMES COOK UNIVERSITY AUSTRALIA

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 Advanced Science MAJOR Aquaculture Science and Technology (AQT)

NAME _____

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:** 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**
	Major Core: BS1007 Introduction to Biodiversity	**Major Core:** BS1001 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** **Elective -** *if student has completed high school level Chemistry or equivalent*	**Elective:**

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	SC2209 Quantitative Methods in Science-Advanced **PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS**	**Elective:** *Recommended – 2nd year subject from the BSc Skills list 2 (Table below)*
	Major Core: AQ2001 Introduction to Aquaculture **PREREQ: 12CP LEVEL 1 SCIENCE (BZ, CH, EA, EV, MA, MB, PH OR SC SUBJECTS)**	**Elective:**
	Major Core: BS2470 Evolution **PREREQ: BS1001 OR BZ1005**	**Elective:**
	Major Core: MI2031 Diagnosis of Bacterial Diseases in Aquaculture	**Elective:**

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Option Core: SC3008 Professional Placement **PREREQ: COMPLETED 12CP SECOND YEAR SUBJECTS** **OR** SC3003 Science Research Internship **PREREQ: 15CP OF AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH OR SC SCIENCE LEVEL 2 SUBJECTS** *All available in multiple study periods*	
	Degree Core List 1: Advanced Skill Subjects	
	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).**	**Elective:**
	Elective:	**Elective:**

SP3 (Jan-Feb)	**SP7** (Jun-Jul)
Major Core: AQ3015 Sustainable Aquaculture **PREREQ: 12CP LEVEL 2 SUBJECTS**	**Major Option Core:** AQ3003 Aquaculture: Propagation – *SP7* **PREREQ: AQ2001 AND 12CP LEVEL 2 SCIENCE SUBJECTS (AQ, BC, BS, BZ, CH, EA, EV, MA, MB, PH, OR SC)** **OR** AQ3004 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).**

Further Degree Options:

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

BSc 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.

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
Aquaculture Science and Technology major handbook