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 Science MAJOR Zoology & Ecology (ZAE)

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 Option Core** SC1102 Modelling Natural Systems **PREREQ: MA1020** **OR** SC1109 Modelling Natural Systems-Advanced^ **PREREQ: MA1000 OR MA1009**
	Core: Select a subject from Breadth-List 1	**Core:** Select a subject from Breadth-List 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** **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:** CH1020 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: BS1007 Introduction to Biodiversity	**Major Core:** BS1001 Introduction to Biological Processes

^ 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 Skill-List 2:** *Subjects available across a number of study periods/trimesters, see list for full availabilities.*
	Major Core: BS2470 Evolution **PREREQ: BS1001**	**Major Core:** BS2460 Fundamentals of Ecology **PREREQ: 6CP OF LEVEL 1 SUBJECTS OR 2 BS/BZ/EV SUBJECTS**
	Elective	Elective
	Elective	

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

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	**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* **OR** SC3901 Special Topic 1– *Prior approval required* *All available in multiple study periods*	
	Elective	**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**
	Elective	Elective

SP10 (Nov-Feb)
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**	~~BS1001 Introduction to Biological Processes~~ - *already in major*
~~BS1007 Introduction to Biodiversity~~ - *already in major*	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