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

Mid-Year Entry 2021

DEGREE Bachelor of Science

MAJOR Marine Biology (MBY)

NAME _____

MINOR Zoology & Ecology (ZAE)

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.

The College of Science and Engineering has implemented screening testing in this degree so that students who are suitably qualified can replace core preparatory subjects with elective subjects. The screening tests **must** be completed even if Senior Chemistry or Maths Methods (or equivalent) have been studied at secondary school.

		Study Period 2 - SP2
Year 1	*MID-YEAR ENTRY*	**Degree Core:** CH1020 Preparatory Chemistry # *# This core subject may be replaced by an elective if you pass the chemistry screening test (held during orientation week). The screening test needs to be completed even if Senior Chemistry (or equivalent) has been studied at secondary school.*
		Degree Opt Core Breadth-List 1:
		Major Core: BS1001 Introduction to Biological Processes
		Elective/Minor:

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	**Degree Core:** SC1101 Science Technology and Truth	**Degree Opt Core** SC1102 Modelling Natural Systems **PREREQ: MA1020** **OR** SC1109 Modelling Natural Systems-Advanced^ **PREREQ: MA1000 OR MA1009**
	Degree Opt Core Breadth-List 1:	**Degree Opt Core Skill-List 2:**
	Major Core: BS1007 Introduction to Biodiversity – *TSV only* **OR** BZ1006 Diversity of Life – *CNS only*	**Major Core:** BS2460 Fundamentals of Ecology **PREREQ: 6CP LEVEL 1 OR 2 BZ/BS OR EV SUBJECTS**
	Degree Core: MA1020 Preparatory Math* ** This core subject may be replaced by an elective if you pass the maths screening test (held during orientation week). The screening test needs to be completed even if Maths Methods (or equivalent) has been studied at secondary school.*	**Elective/Minor:**

^ 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 3	**Degree Core:** SC2202 Quantitative Methods in Science **PREREQ: SC1102 OR MA1020 OR MATH B OR EQUIVALENT** **OR** SC2209 Quantitative Methods in Science-Advanced **PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS**	**Major Core:** MB3190 Coral Reef Ecology **PREREQ: CREDIT OR BETTER IN BS2460** **OR** MB3270 Coastal, Estuarine and Mangrove Ecosystems **PREREQ: BS1007 OR MB2050 OR SC2202/SC2209**
	Major Core: MB2050 Functional Biology of Marine Organisms **PREREQ: BS1007 OR BZ1006**	**Minor Core:** BZ3061 Behavioural Ecology (SP2) **PREREQ: 6CP OF LEVEL 1 SUBJECTS** **OR** BZ3745 Tropical Entomology (SP3) – *CNS ONLY* **PREREQ: SC2202/SC2209 AND BS1007**
	Major Core: BS2470 Evolution **PREREQ: BS1001**	**Minor Core:** BZ3220 Population and Community Ecology **PREREQ: 6CP OF LEVEL 1 SUBJECTS**

SP7 (Jun-Jul)	**SP10 (Nov-Feb)**
Minor Core: BZ2490 Toolkit for the Field Biologist **PREREQ: SC2202/SC2209**	**Minor Core:** BZ3230 Ecological Research Methods **PREREQ: SC2202/SC2209 AND (BS2460 OR BZ2880)** **OR** BZ3001 Field Studies in the Equatorial Tropics: Borneo

	Study Period 1 - SP1	
Year 4	**Degree Core:** SC3008 Professional Placement - *available any SP*	*MID-YEAR COMPLETION*
	Degree Core: SC3010 Sensors and Sensing for Scientists **PREREQ: SC2202/SC2209**	
	Major Core: MB3050 Biological Oceanography **PREREQ: BS1007 AND MB2050 AND SC2202/SC2209**	
	Major Core: MB3210 Life History and Evolution of Reef Corals **PREREQ: SC2202/SC2209 AND AT LEAST A RESULT OF CREDIT IN BS2460** **OR** MB3160 Evolution and Ecology of Reef Fishes **PREREQ: MB2050 AND BS2460 AND A MINIMUM RESULT OF CREDIT IN BS2470 OR MB2070**	

Further Degree Options:

Breadth-List 1:	
Study Period 1 – SP1	**Study Period 2 – SP2**
CP1401 Problem Solving and Programming I **OR** CP1404 Programming II **PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201** *both subjects available in SP1 and 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	PH1007 Advanced Stream Physics 2 – *TSV only* **PREREQ: ((MATHS B OR EQUIVALENT OR MA1020) AND PH1005) OR (PHYSICS AND MATHS C)**
MA1000 Mathematical Foundations **PREREQ: MA1020 OR MATHEMATICS B OR MATHS C**	
PH1005 Advanced Stream Physics 1 **PREREQ: Maths B OR MA1020 OR MA1000 OR MA1008.**	

*****CP1404 has been added to the structure from 2019. We would prefer if you would take CP1404.*

Skill-List 2:	
Study Period 1 – SP1	**Study Period 2 – SP2**
CP2404 Database Modelling	EV2502 Introduction to Geographic Information Systems **PREREQ: 12CP LEVEL 1 SUBJECTS**
	MA2210 Linear Algebra **PREREQ: MA1003**
	CH2103 Analytical Chemistry – *TSV only* **PREREQ: CH1001 OR CH1011**