

RECOMMENDED STUDY PLAN

2021

DEGREE Bachelor of Science

MAJOR Zoology & Ecology (ZAE)

NAME _____

MAJOR Molecular and Cell Biology (MCB)

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: <u>SC1101</u> Science Technology and Truth	Degree Opt Core <u>SC1102</u> Modelling Natural Systems PREREQ: MA1020 OR <u>SC1109</u> Modelling Natural Systems-Advanced [^] PREREQ: MA1000 OR MA1009
	Major Core (MCB): <u>BM1000</u> Introductory Biochemistry and Microbiology PREREQ: CH1020 OR SENIOR CHEMISTRY	Degree Opt Core Breadth-List 1:
	Major Core (ZAE): <u>BS1007</u> Introduction to Biodiversity	Major Core (Both): <u>BS1001</u> Introduction to Biological Processes
	Degree Core: <u>MA1020</u> Preparatory Math* <i>*This subject is equivalent to QLD-Maths Methods from high school. This core subject may be replaced by an elective if you pass the math competency test.</i>	Degree Core: <u>CH1020</u> Preparatory Chemistry # <i># This subject is equivalent to chemistry from high school. This core subject may be replaced by an elective if you pass the chemistry competency test.</i>

[^] 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 Core: <u>SC2202</u> Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MATH B OR EQUIVALENT OR <u>SC2209</u> Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Degree Opt Core Skill-List 2:
	Major Core (ZAE): <u>BS2470</u> Evolution PREREQ: BS1001 OR BZ1005	Major Core (ZAE): <u>BS2460</u> Fundamentals of Ecology PREREQ: 6CP OF LEVEL 1 SUBJECTS OR 2 BS/BZ/EV SUBJECTS
	Major Core (MCB): <u>BC2013</u> Principles of Biochemistry PREREQ: 18CP LEVEL 1 SUBJECTS WHICH INCLUDES BM1000 AND BS1001	Major Core (MCB): <u>BC2023</u> Molecular Genetics PREREQ: BM1000 AND 18CP LEVEL 1 SUBJECTS
		Major Core (MCB): <u>BC2024</u> Cell Biology PREREQ: BM1000 AND 18CP LEVEL 1 SUBJECTS

SP7 (Jun-Jul)

Major Core (ZAE):
BZ2490 Toolkit for the Field Biologist
PREREQ: SC2202/SC2209

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: <u>SC3008</u> Professional Placement - <i>available any SP</i>	
	Degree Core: <u>SC3010</u> Sensors and Sensing for Scientists PREREQ: SC2202/SC2209	Major Core (ZAE): <u>BZ3061</u> Behavioural Ecology (SP2) PREREQ: 6CP OF LEVEL 1 SUBJECTS OR <u>BZ3745</u> Tropical Entomology (SP3) – <i>CNS ONLY</i> PREREQ: SC2202/SC2209 AND BS1007
	Major Core (MCB): <u>BC3101</u> Genes, Genomes, and Development PREREQ: BC2023	Major Core (ZAE): <u>BZ3220</u> Population and Community Ecology PREREQ: 6CP OF LEVEL 1 SUBJECTS
	Major Core (MCB): <u>BC3102</u> Molecular Basis of Disease PREREQ: BC2013 AND BC2024	Major Core (MCB): <u>BC3201</u> Bioengineering PREREQ: BC2013 AND BC2023
		SP10 (Nov-Feb)
		Major Core (ZAE): <u>BZ3230</u> Ecological Research Methods PREREQ: SC2202/SC2209 AND (BS2460 OR BZ2880) OR <u>BZ3001</u> Field Studies in the Equatorial Tropics: Borneo

Further Degree Options:

Breadth-List 1:	
Study Period 1 – SP1	Study Period 2 – SP2
<u>CP1401</u> Problem Solving and Programming I OR <u>CP1404</u> Programming II PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201 <i>both subjects available in SP1 and SP2 **</i>	
<u>CH1001</u> Chemistry: A Central Science PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY	<u>CH1002</u> Chemistry: Principles & Applications – <i>TSV only</i> PREREQ: CH1001 OR CH1011
<u>EG1000</u> Engineering 1	<u>EA1110</u> Evolution of the Earth
<u>EV1005</u> Environmental Processes & Global Change	<u>MA1003</u> Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009
<u>MA1000</u> Mathematical Foundations PREREQ: MA1020 OR MATHEMATICS B OR MATHS C	<u>PH1007</u> Advanced Stream Physics 2 – <i>TSV only</i> PREREQ: ((MATHS B OR EQUIVALENT OR MA1020) AND PH1005) OR (PHYSICS AND MATHS C)
<u>PH1005</u> 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
<u>CP2404</u> Database Modelling	<u>EV2502</u> Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS
	<u>MA2210</u> Linear Algebra PREREQ: MA1003
	<u>CH2103</u> Analytical Chemistry – <i>TSV only</i> PREREQ: CH1001 OR CH1011