

## RECOMMENDED STUDY PLAN

2022

DEGREE Bachelor of Advanced Science MAJOR Advanced Molecular and Cell Biology (MCB)

NAME \_\_\_\_\_ MAJOR Choose a second major

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
<b>Year 1</b>	<b>Degree Core:</b> <u>SC1101</u> Science Technology and Truth	<b>Degree Core:</b> <u>SC1109</u> Modelling Natural Systems-Advanced <b>PREREQ:</b> MA1000 OR MA1009
	<b>Degree Core:</b> <u>MA1000</u> Mathematical Foundations <b>PREREQ:</b> MA1020 OR MATHEMATICS B OR MATHS C	<b>Degree Core:</b> <u>MA1003</u> Mathematical Techniques <b>PREREQ:</b> MA1000 OR MA1011 OR MA1009
	<u>BM1000</u> Introductory Biochemistry and Microbiology <b>PREREQ:</b> CH1020 OR SENIOR CHEMISTRY	<b>Major Core:</b> <u>BS1001</u> Introduction to Biological Processes
		<b>Major Core:</b>
<b>SP3 (Jan-Feb)</b>		
Students who have not completed High School Chemistry (or equivalent) must take <b>Degree Core:</b> <u>CH1020</u> Preparatory Chemistry# <i>#This subject is equivalent to chemistry from high school.</i>  <b>OR</b> <b>Elective - if student has completed high school level Chemistry or equivalent</b>		

	Study Period 1 - SP1	Study Period 2 - SP2
<b>Year 2</b>	<u>SC2209</u> Quantitative Methods in Science-Advanced <b>PREREQ:</b> SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	<b>Major Core:</b> <u>BC2023</u> Molecular Genetics <b>PREREQ:</b> 18CP LEVEL 1 SUBJECTS INCLUDING BM1000
	<b>Major Core:</b> <u>BC2013</u> Principles of Biochemistry <b>PREREQ:</b> 18CP LEVEL 1 SUBJECTS WHICH INCLUDES BM1000 AND BS1001	<b>Major Core:</b> <u>BC2024</u> Cell Biology <b>PREREQ:</b> 18CP LEVEL 1 SUBJECTS INCLUDING BM1000
	<b>Major Core:</b>	<b>Major Core:</b>
	<b>Major Core:</b>	<b>Major Core:</b>

<b>Year 3</b>	<b>Study Period 1 - SP1</b>	<b>Study Period 2 - SP2</b>
	<b>Degree Option Core:</b> SC3008 Professional Placement PREREQ: COMPLETED 12CP SECOND YEAR SUBJECTS <b>OR</b> SC3003 Science Research Internship PREREQ: 15CP OF AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH OR SC SCIENCE LEVEL 2 SUBJECTS <i>All available in multiple study periods</i>	
	<b>Degree Core List 1:</b> Advanced Skill Subjects	
	<b>Major Core:</b> <u>BC5101</u> Advanced Genes, Genomes, and Development	<b>Major Core:</b> <u>BC5201</u> Advanced Bioengineering
	<b>Major Core:</b> <u>BC5102</u> Advanced Molecular Basis of Disease	<b>Major Core:</b>
<b>Major Core:</b>	<b>Major Core:</b>	

#### Further Degree Options:

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

Students who undertake this major and a second major of Aquaculture Science and Technology, Marine Biology or Zoology and Ecology will have BS1001 removed from the secondary major structure and replaced with a Level 1 subject elective

#### 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](#)

[Advanced Molecular and Cell Biology major handbook](#)