

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 Advanced Molecular and Cell Biology (MCB)
NAME		_

To assist you with subject information, we recommend you consult with your <u>CSE Course/Major Advisor</u> and refer to <u>Subject Search</u>. 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.

Year 1	Study Period 1 - SP1	Study Period 2 - SP2
	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
	BM1000 Introductory Biochemistry and Microbiology PREREQ: CH1020 OR SENIOR CHEMISTRY	Major Core: BS1001 Introduction to Biological Processes
		Elective:

SP3 (Jan-Feb)

Students who have not completed High School Chemistry (or equivalent) must take

Degree Core: <u>CH1020</u> Preparatory Chemistry#

#This subject is equivalent to chemistry from high school.

OR

Elective - if student has completed high school level Chemistry or equivalent

Year 2	Study Period 1 - SP1	Study Period 2 - SP2
	SC2209 Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Major Core: BC2023 Molecular Genetics PREREQ: 18CP LEVEL 1 SUBJECTS INCLUDING BM1000
	Major Core: <u>BC2013</u> Principles of Biochemistry PREREQ: 18CP LEVEL 1 SUBJECTS WHICH INCLUDES BM1000 AND BS1001	Major Core: BC2024 Principles of Molecular Cell Biology PREREQ: 18CP LEVEL 1 SUBJECTS INCLUDING BM1000
	Elective:	Elective: Recommended – 2 nd year subject from the BSc Skills list 2 (Table below)
	Elective:	Elective:

	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	
Year 3	Major Core: <u>BC5101</u> Advanced Genes, Genomes, and Development	Major Core: <u>BC5201</u> Advanced Bioengineering
		Elective:
	Major Core: <u>BC5102</u> Advanced Molecular Basis of	BC3202 Special Topics in Biochemistry and Molecular
	Disease	Biology - Recommended
		PREREQ: BC2013 AND BC2023 AND BC2024
		Elective:
	Degree Core List 1:	<u>BC3203</u> Bioinformatics - Recommended
		PREREQ: SC2202/SC2209 OR MA2405 OR (BC3101 AND HS2402)
	Elective:	

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.

COURSE PROGRESSION REQUISITES

Must successfully complete 18 credit points of Level 2 science subjects before attempting any Level 5 science subject

ADDITIONAL INFORMATION

<u>Bachelor of Advanced Science course handbook</u>

<u>Advanced Molecular and Cell Biology major handbook</u>