

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 Molecular and Cell Biology (MCB)
NAME	MAJOR Choose a second major

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
	<b>Degree Core:</b> SC1101 Science Technology and Truth	Degree Option Core SC1102 Modelling Natural Systems PREREQ: MA1020 OR SC1109 Modelling Natural Systems-Advanced^ PREREQ: MA1000 OR MA1009
	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	Major Core: BS1001 Introduction to Biological Processes
	Maths Methods or equivalent	
	Major Core: BM1000 Introductory Biochemistry and Microbiology PREREQ: CH1020 OR SENIOR CHEMISTRY	Major Core:
	Major Core:	

### SP3 (Jan-Feb)

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

<sup>^</sup> Note- SC1109 is compulsory in the Advanced BSc Program and should be taken instead of SC1102 if you are considering that pathway.

Year 2	Study Period 1 - SP1	Study Period 2 - SP2
	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 <u>Skill-List 2</u> : Subjects available across a number of study periods/trimesters, see list for full availabilities.
	Major Core: BC2013 Principles of Biochemistry PREREQ: 18CP LEVEL 1 SUBJECTS WHICH INCLUDES BM1000 AND BS1001	Major Core: BC2023 Molecular Genetics PREREQ: 18CP LEVEL 1 SUBJECTS INCLUDING BM1000
	Major Core:	Major Core: BC2024 Cell Biology PREREQ: BM1000 AND 18CP LEVEL 1 SUBJECTS
	Major Core:	Major Core:

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Option Core:	
		essional Placement CTS AND BE ENROLLED IN THEIR FINAL YEAR OF STUDY
		OR
	SC5008 Professional Placement – Prior approval required	
		OR
6	SC3901 Special Topic 1– Prior approval required	
	All available in multiple study periods	
Yea	Major Core: <u>BC3101</u> Genes, Genomes, and Development	Major Core: BC3201 Bioengineering
	PREREQ: BC2023	PREREQ: BC2013 AND BC2023
	Major Core: BC3102 Molecular Basis of Disease PREREQ: BC2013 AND BC2024	Elective <u>BC3203</u> Bioinformatics - Recommended
		PREREQ: SC2202/SC2209 OR MA2405 OR (BC3101 AND HS2402)
	Major Core:	Major Core:
	Major Core:	

# **Further Degree Options:**

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)	
<u>CP2404</u> 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.

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 1 and 2 science subjects before attempting any Level 3 science subject

### **COURSE INCLUDES MANDATORY PROFESSIONAL PLACEMENT(S)**

Yes

#### **ADDITIONAL INFORMATION**

<u>Bachelor of Science course handbook</u> <u>Molecular and Cell Biology major handbook</u>