

Bachelor of Advanced Science

MAJOR Advanced Molecular and Cell Biology

MAJOR Choose a second major

This study plan should be used as a general guide for your course. We recommend you consult with your <u>CSE Course/Major Advisor</u> and particularly if your intended enrolment varies from this plan.

The information in the study plan is current at the time of creation and may be subject to future change. If you would prefer a part-time study plan, please adjust the below study planner; reviewing subject prerequisites to ensure you are on track for course completion.

Useful study planning/enrolment resources:

To search for information on subjects: <u>Subject Search</u> To register for your classes: <u>Class Registration</u> For important dates check: <u>Academic Calendars</u> Further enrolment resources: <u>Enrolment Resources</u>

	STUDY PERIOD 1	STUDY PERIOD 2
		Major BS1001:03 Introduction to Biological Processes
Year 1		Second Major
Ye		Second Major
		Elective (Provided chemistry already satisfied via previous study)

Year 2	STUDY PERIOD 1	STUDY PERIOD 2
	Course SC1101 :03 Science Technology and Truth	Course SC1109:03 Modelling Natural Systems-Advanced ^ PREREQ: MA1000 or MA1009
	Course MA1000:03 Mathematical Foundations PREREQ: MA1020 or MA0020 or Maths B or Maths C	Course MA1003:03 Mathematical Techniques PREREQ: MA1000 or MA1011 or MA1009
	Major BM1000:03 Introductory Biochemistry and Microbiology PREREQ: CH1020, CH0020 or Senior Chemistry*	Second Major
	Second Major	Second Major



Missing chem and also want a MCB double major?

JCU's <u>Certificate of Higher Ed</u> has an online subject, CH0020 that is available before the start of your degree. Passing this subject will allow you to enrol in BM1000 in SP1. If choosing this option, further chemistry requirements are needed for your degree. You could also consider delaying SC1101 to second year and taking CH1020 concurrently with BM1000. Discuss which option is best for you with your academic advisor, <u>Lionel.hebbard@jcu.edu.au</u>.

	STUDY PERIOD 1	STUDY PERIOD 2	
Year 3	Course SC2209:03 Quantitative Methods in Science-Advanced PREREQ: MA1003 and SC1109 plus 6 credit points of Level 1 subjects	Major BC2023:03 Molecular Genetics PREREQ: At least 18 credit points of Level 1 subjects including BM1000	
	Major BC2013:03 Principles of Biochemistry PREREQ: At least 18 credit points of Level 1 subjects which includes BM1000 and BS1001	Major BC2024:03 Principles of Molecular Cell Biology PREREQ: At least 18 credit points of Level 1 subjects including BM1000 Major BC5201:03 Advanced Bioengineering	
	Second Major		
	Second Major	Second Major	

	STUDY PERIOD 1	STUDY I
4	Course	
	Select Availability in Study Period 1, 2, 3, 7 or 11	
	SC3003:03 Science Research Internship	
	PREREQ:15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC Level 2 subjects	
	OR	
	SC3008:03 Professional Placement	
	PREREQ: Students must have successfully completed 12 credit points of second year subjects.	
ear	Enrolment is restricted to students with an approved placement	
Ye	Course Select an ADVANCED SKILL subject- List 1	
	Major	
	BC5101:03 Advanced Genes, Genomes and	
	Development	
	Major	
	BC5102:03 Advanced Molecular Basis of Disease	



ADVANCED SKILL SUBJECTS - LIST 1			
STUDY PERIOD 1	STUDY PERIOD 2		
BS5260:03 Modelling Ecological Dynamics	BC5203:03 Advanced Bioinformatics		
MA2000:03 Mathematics for Scientists and Engineers PREREQ: MA1003	CH5002:03 Research Skills and Communication in Chemistry (Advanced) PREREQ: Satisfactory completion of 9 credit points of Level 2, 3 or 5 CH subjects		
^EA5409:03 Mineralogy and Geophysics	SC5502:03 Design and Analyses in Ecological Studies		
APH5014:03 Research Skills and Communication in Physics (Advanced)			

^Note: EA5409 and PH5014 are not offered in 2023

COURSE NOTES

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 INFORMATION

Bachelor of Advanced Science Handbook Advanced Molecular and Cell Biology Major