



Bachelor of Science MAJOR **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 [CSE Course/Major Advisor](#) 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: [Subject Search](#)

To register for your classes: [Class Registration](#)

For important dates check: [Academic Calendars](#)

Further enrolment resources: [Enrolment Resources](#)

	STUDY PERIOD 1	STUDY PERIOD 2
Year 1		Course CH1020:03 Preparatory Chemistry OR Select 3 credit points of any level 1, 2, 3 or 5 subjects (if completed high school level Chemistry or equivalent)
		Course MA1020:03 Preparatory Mathematics OR Select 3 credit points of any level 1, 2, 3 or 5 subjects (if completed high school level Maths Methods or equivalent)
		Major BS1001:03 Introduction to Biological Processes
		Second Major

	STUDY PERIOD 1	STUDY PERIOD 2
Year 2	Course SC1101:03 Science, Technology, and Truth	Course SC1102:03 Modelling Natural Systems <i>PREREQ: MA1020 or MA0020 or Senior Mathematics or equivalent</i> OR SC1109:03 Modelling Natural Systems - Advanced <i>PREREQ: MA1000 or MA1009</i>
	Major BM1000:03 Introductory Biochemistry and Microbiology <i>PREREQ: CH1020, CH0020 or Senior Chemistry</i>	Course Select 3 credit points of subjects from List 2
	Second Major	Major BC2023:03 Molecular Genetics <i>PREREQ: At least 18 credit points of level 1 subjects including BM1000</i>
	Elective	Second Major

^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	STUDY PERIOD 2
Year 3	Course SC2202:03 Quantitative Methods in Science <i>PREREQ: SC1102 or MA1020 or MA1000 or Mathematics B or equivalent</i> OR SC2209:03 Quantitative Methods in Science - Advanced <i>PREREQ: SC1109 and MA1003 plus 6 credit points of any level 1 subjects</i>	Major BC2024:03 Principles of Molecular Cell Biology <i>PREREQ: At least 18 credit points of level 1 subjects including BM1000</i>
	Major BC2013:03 Principles of Biochemistry <i>PREREQ: At least 18 credit points of level 1 subjects which includes BM1000</i>	Major BC3201:03 Bioengineering <i>PREREQ: BC2013 and BC2023</i>
	Major BC3101:03 Genes, Genomes, and Development <i>PREREQ: BC2023</i>	Second Major
	Second Major	Second Major

Year 4	STUDY PERIOD 1		STUDY PERIOD 2	
	Course SC3008:03 Professional Placement <i>PREREQ: 12 credit points of second year subjects and be enrolled in their final year of study within the College of Science and Engineering</i>			
	Major BC3102:03 Molecular Basis of Disease <i>PREREQ: BC2013 AND BC2024</i>			
	Second Major			
Second Major				

BREADTH SUBJECTS - LIST 1		
STUDY PERIOD 1		STUDY PERIOD 2
BM1000:03 Introductory Biochemistry and Microbiology		BS1001:03 Introduction to Biological Processes
BS1007:03 Introduction to Biodiversity		CH1002:03 Chemistry: Principles and Applications <i>PREREQ: CH1001</i>
CH1001:03 Chemistry: A Central Science		EA1110:03 Evolution of the Earth
EG1000:03 Engineering 1		MA1003:03 Mathematical Techniques <i>PREREQ: MA1000</i>
EV1005:03 Environmental Processes and Global Change		MA1580:03 Foundations of Data Science
MA1000:03 Mathematical Foundation		PH1007:03 Advanced Stream Physics 2 <i>PREREQ: PH1005 OR (High School Physics and M</i>
PH1005:03 Advanced Stream Physics 1		
TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
CP1401:03 Problem Solving and Programming I CP1401:03 Problem Solving and Programming I- <i>*EXTERNAL OFFERING</i>	CP1401:03 Problem Solving and Programming I- <i>*EXTERNAL OFFERING</i>	CP1404:03 Programming II CP1404:03 Programming II- <i>*EXTERNAL OFFERING</i>
	CP1404:03 Programming II- <i>*EXTERNAL OFFERING</i>	

SKILL SUBJECTS - LIST 2

STUDY PERIOD 1	STUDY PERIOD 2
MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	CH2103:03 Analytical Chemistry <i>PREREQ: CH1001 OR CH1011</i>
MA2830 Data Visualisation	EV2502:03 Introduction to Geographic Information Systems <i>PREREQ: At least 12 credit points of level 1 subjects</i>
SC3010:03 Sensors and Sensing for Scientists <i>PREREQ: SC2202 OR (SC2209 OR SC2201 OR BZ2001)</i>	MA2210:03 Linear Algebra <i>PREREQ: MA1003</i>

TRIMESTER 3
CP2404:03 Database Modelling CP2404:03 Database Modelling- <small>*EXTERNAL OFFERING</small>

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 Science Handbook](#)

[Molecular and Cell Biology](#)