

RECOMMENDED STUDY PLAN

2021

DEGREE Bachelor of Science MAJOR Molecular and Cell Biology (MCB) – TSV only

NAME _____

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
Year 1	Degree Core: <u>SC1101</u> Science Technology and Truth	Degree Opt Core <u>SC1102</u> Modelling Natural Systems PREREQ: MA1020 OR <u>SC1109</u> Modelling Natural Systems-Advanced^ PREREQ: MA1000 OR MA1009
	Degree Opt Core Breadth-List 1: <u>MA1000</u> Mathematical Foundations - Recommended PREREQ: MA1020 OR MATHEMATICS B OR MATHS C	Degree Opt Core Breadth-List 1: <u>MA1003</u> Mathematical Techniques - Recommended PREREQ: MA1000 OR MA1011 OR MA1009
	Major Core: <u>BM1000</u> Introductory Biochemistry and Microbiology PREREQ: CH1020 OR SENIOR CHEMISTRY	Major Core: <u>BS1001</u> Introduction to Biological Processes
	Degree Core: <u>MA1020</u> Preparatory Math* <i>*This subject is equivalent to QLD-Maths Methods from high school. This core subject may be replaced by an elective if you pass the math competency test.</i>	Degree Core: <u>CH1020</u> Preparatory Chemistry # <i># This subject is equivalent to chemistry from high school. This core subject may be replaced by an elective if you pass the chemistry competency test.</i>

^ 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 - SP1	Study Period 2 - SP2
Year 2	Degree Core: <u>SC2202</u> Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MATHS B OR EQUIVALENT OR <u>SC2209</u> Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Degree Opt Core Skill-List 2:
	Major Core: <u>BC2013</u> Principles of Biochemistry PREREQ: 18CP LEVEL 1 SUBJECTS WHICH INCLUDES BM1000 AND BS1001	Major Core: <u>BC2023</u> Molecular Genetics PREREQ: BM1000 AND 18CP LEVEL 1 SUBJECTS
	Elective/Minor/2nd Major (or BSc Opt Core Skill-List 2) :	Major Core: <u>BC2024</u> Cell Biology PREREQ: BM1000 AND 18CP LEVEL 1 SUBJECTS
	Elective/Minor/2nd Major:	Elective/Minor/2nd Major:

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: <u>SC3008</u> Professional Placement - <i>available any SP</i>	
	Degree Core: <u>SC3010</u> Sensors and Sensing for Scientists PREREQ: <u>SC2202/SC2209</u>	Major Core: <u>BC3201</u> Bioengineering PREREQ: <u>BC2013</u> AND <u>BC2023</u>
	Major Core: <u>BC3101</u> Genes, Genomes, and Development PREREQ: <u>BC2023</u>	Elective/Minor/2nd Major: <u>BC3202</u> <i>Special Topics in Biochemistry and Molecular Biology - Recommended</i> PREREQ: <u>BC2013</u> AND <u>BC2023</u> AND <u>BC2024</u>
	Major Core: <u>BC3102</u> Molecular Basis of Disease PREREQ: <u>BC2013</u> AND <u>BC2024</u>	Elective/Minor/2nd Major:
	Elective/Minor/2nd Major:	

Further Degree Options:

Breadth-List 1:	
Study Period 1 – SP1	Study Period 2 – SP2
<u>CP1401</u> Problem Solving and Programming I OR <u>CP1404</u> Programming II PREREQ: <u>CP1801</u> OR <u>CP1401</u> OR <u>CP1200</u> OR <u>EG1002</u> OR <u>CP2200</u> OR <u>SC1201</u> <i>both subjects available in SP1 and SP2 **</i>	
<u>BS1007</u> Introduction to Biodiversity	<u>CH1002</u> Chemistry: Principles & Applications PREREQ: <u>CH1001</u> OR <u>CH1011</u>
<u>CH1001</u> Chemistry: A Central Science PREREQ: <u>CH1020</u> OR <u>EG1010</u> OR SENIOR CHEMISTRY	<u>EA1110</u> Evolution of the Earth
<u>EG1000</u> Engineering 1	<u>MA1003</u> Mathematical Techniques PREREQ: <u>MA1000</u> OR <u>MA1011</u> OR <u>MA1009</u>
<u>EV1005</u> Environmental Processes & Global Change	<u>PH1007</u> Advanced Stream Physics 2 PREREQ: ((<u>MATHS B</u> OR EQUIVALENT OR <u>MA1020</u>) AND <u>PH1005</u>) OR (<u>PHYSICS</u> AND <u>MATHS C</u>)
<u>MA1000</u> Mathematical Foundations PREREQ: <u>MA1020</u> OR <u>MATHEMATICS B</u> OR <u>MATHS C</u>	
<u>PH1005</u> Advanced Stream Physics 1 PREREQ: <u>Maths B</u> OR <u>MA1020</u> OR <u>MA1000</u> OR <u>MA1008</u> .	

****CP1404 has been added to the structure from 2019. We would prefer if you would take CP1404.**

Skill-List 2:	
Study Period 1 – SP1	Study Period 2 – SP2
<u>CP2404</u> Database Modelling	<u>EV2502</u> Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS
	<u>MA2210</u> Linear Algebra PREREQ: <u>MA1003</u>
	<u>CH2103</u> Analytical Chemistry PREREQ: <u>CH1001</u> OR <u>CH1011</u>