

RECOMMENDED STUDY PLAN

Mid-Year Entry **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.

The College of Science and Engineering has implemented screening testing in this degree so that students who are suitably qualified can replace core preparatory subjects with elective subjects. The screening tests **must** be completed even if Senior Chemistry or Maths Methods (or equivalent) have been studied at secondary school.

Year 1	MID-YEAR ENTRY	Study Period 2 - SP2
		Degree Core: <u>CH1020</u> Preparatory Chemistry # # This core subject may be replaced by an elective if you pass the chemistry screening test (held during orientation week). The screening test needs to be completed even if Senior Chemistry (or equivalent) has been studied at secondary school.
		Major Core: <u>BS1001</u> Introduction to Biological Processes
		Elective/Minor/2nd Major:
		Elective/Minor/2nd Major:

Year 2	Study Period 1 - SP1	Study Period 2 - SP2
	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:	Degree Opt Core Breadth-List 1: <u>MA1000</u> Mathematical Foundations - Recommended PREREQ: MA1020 OR MATHEMATICS B OR MATHS C
	Degree Core: <u>MA1020</u> Preparatory Math* * This core subject may be replaced by an elective if you pass the maths screening test (held during orientation week). The screening test needs to be completed even if Maths Methods (or equivalent) has been studied at secondary school.	Major Core: <u>BC2023</u> Molecular Genetics PREREQ: BM1000 AND 18CP LEVEL 1 SUBJECTS
	Major Core: <u>BM1000</u> Introductory Biochemistry and Microbiology PREREQ: CH1020 OR SENIOR CHEMISTRY	Major Core: <u>BC2024</u> Cell Biology PREREQ: BM1000 AND 18CP LEVEL 1 SUBJECTS

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

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: SC2202 Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MATHS B OR EQUIVALENT OR SC2209 Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Degree Opt Core <u>Skill-List 2</u>
	Major Core: <u>BC2013</u> Principles of Biochemistry PREREQ: 18CP LEVEL 1 SUBJECTS WHICH INCLUDES BM1000 AND BS1001	
	Elective/Minor/2nd Major:	Elective/Minor/2nd Major: <u>BC3202</u> Special Topics in Biochemistry and Molecular Biology - Recommended PREREQ: BC2013 AND BC2023 AND BC2024
	Elective/Minor/2nd Major:	Elective/Minor/2nd Major:

Year 4	Study Period 1 - SP1	<p style="text-align: center;"><i>MID-YEAR COMPLETION</i></p>
	Degree Core: <u>SC3008</u> Professional Placement - available any SP	
	Degree Core: <u>SC3010</u> Sensors and Sensing for Scientists PREREQ: SC2202/SC2209	
	Major Core: <u>BC3101</u> Genes, Genomes, and Development PREREQ: BC2023	
	Major Core: <u>BC3102</u> Molecular Basis of Disease PREREQ: BC2013 AND BC2024	

Further Degree Options:

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

****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: MA1003
	<u>CH2103</u> Analytical Chemistry PREREQ: CH1001 OR CH1011