

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**

Mid-Year Entry 2021

DEGREE	Bachelor of Science	MAJOR	Mathematics (MTM) – TSV only after 1st Semester
NAME		-	

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor 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.

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.

## Study Period 2 - SP2 Degree Core: CH1020 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. MID-YEAR Degree Core: MA1020 Preparatory Math\* \* This core subject may be replaced by an elective if you **ENTRY** Year 1 pass the maths screening test (held during orientation week). The screening test needs to be completed even if Note-This major started as mid-year entry, Maths Methods (or equivalent) has been studied at cannot be completed in 3 years secondary school. Degree Opt Core Breadth-List 1: Elective/Minor/2<sup>nd</sup> Major: <u>CP1401</u> Problem Solving and Programming I **OR** <u>CP1404</u> Programming II - Recommended PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201

	Study Period 1 - SP1	Study Period 2 - SP2
ır 2	<b>Degree Core:</b> SC1101 Science Technology and Truth	Degree Opt Core SC1102 Modelling Natural Systems PREREQ: MA1020 OR SC1109 Modelling Natural Systems-Advanced^ PREREQ: MA1000 OR MA1009
Yea	Degree Opt Core <u>Breadth-List 1</u> :	Degree Opt Core <u>Skill-List 2</u> :
	Major Core: MA1000 Mathematical Foundations PREREQ: MA1020 OR MATHEMATICS B OR MATHS C	Major Core: Major Core: MA1003 Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009
	Elective/Minor/2 <sup>nd</sup> Major:	Elective/Minor/2 <sup>nd</sup> Major:

<sup>^</sup> 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 3	Degree Core:  SC2202 Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MATH B OR EQUIVALENT OR  SC2209 Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Major Core: MA2210 Linear Algebra PREREQ: MA1003
×	Major Core: MA2000 Mathematics for Scientists and	Elective/Minor/2 <sup>nd</sup> Major:
	Engineers	MA2405 Advanced Statistical Modelling - Recommended
	PREREQ: MA1003	PREREQ: MA1401 OR MA2401 OR SC2202/SC2209
	Major Core: MA2211 Discrete Mathematics PREREQ: MATHS B	
	Elective/Minor/2 <sup>nd</sup> Major:	

	Study Period 1 - SP1	Study Period 2 - SP2
ear 4	<b>Degree Core:</b> <u>SC3008</u> Professional Placement - available any SP	Major Core: MA3210 Probability and Stochastic Processes PREREQ: MA2000 AND (MA2210 OR MA2201 Numerical Mathematics)
	<b>Degree Core:</b> SC3010 Sensors and Sensing for Scientists PREREQ: SC2202/SC2209	Major Core: MA3212 Optimisation and Operations Research PREREQ: MA2000 AND (MA2210 OR MA2201 Numerical Mathematics)
Y	Major Core: MA3211 Mathematical Modelling and Differential Equations PREREQ: MA2000 AND (MA2210 OR MA2201 Numerical Mathematics)	
	Elective/Minor/2 <sup>nd</sup> Major:	

## **Further Degree Options:**

Breadth-List 1:		
Study Period 1 – SP1	Study Period 2 – SP2	
CP1401 Problem Solving and Programming I		
<u>OR</u>		
<u>CP1404</u> Programming II		
PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201		
both subjects available in SP1 and SP2 **		
BM1000 Introductory Biochemistry and		
Microbiology – TSV only	BS1001 Introduction to Biological Processes	
PREREQ: CH1020 OR SENIOR CHEMISTRY		
BS1007 Introduction to Biodiversity –TSV only		
OR	EA1110 Evolution of the Earth	
<u>BZ1006</u> Diversity of Life – CNS only		
EG1000 Engineering 1	PH1007 Advanced Stream Physics 2 – TSV only PREREQ: ((MATHS B OR EQUIVALENT OR MA1020) AND PH1005) OR (PHYSICS AND MATHS C)	
EV1005 Environmental Processes & Global Change		
PH1005 Advanced Stream Physics 1		
PREREQ: Maths B OR MA1020 OR MA1000 OR MA1008.		

<u>Skill-List 2</u> :		
Study Period 1 – SP1	Study Period 2 – SP2	
<u>CP2404</u> Database Modelling	EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS	