

Bachelor of Science

MAJOR Mathematics

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	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>
	Course	Select a BREADTH SUBJECT from List 1	Course Select a BREADTH SUBJECT from List 1
	Course	Course MA1020:03 Preparatory Mathematics – SP3 or Elective (only if already satisfied via previous study)	Course CH1020:03 Preparatory Chemistry or Elective (only if already satisfied via previous study)
	Major	Major MA1000:03 Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or Maths B or Maths C</i>	Major MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>

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

Year 2	STUDY PERIOD 1		STUDY PERIOD 2	
	Course SC2202:03 Quantitative Methods in Science <i>PREREQ: SC1102 or SC1109</i> or SC2209:03 Quantitative Methods in Science-Advanced <i>PREREQ: MA1003 and SC1109 plus 6 credit points of level 1 subjects</i>		Course Select a SKILL SUBJECT from List 2 <i>Subjects are available across a number of study periods/trimesters, see List 2 for full availabilities.</i>	
	Major MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>		Major MA2210:03 Linear Algebra <i>PREREQ: MA1003</i>	
	Elective		Elective	
			Elective	
	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3	
	Major MA2211:03 Discrete Mathematics <i>PREREQ: Maths B or MA1020 or MA0020</i>			

Year 3	STUDY PERIOD 1		STUDY PERIOD 2	
	Course SC3008:03 Professional Placement Select Availability in Study Period 1, 2, 3, 7 or 11 <i>PREREQ: Students must have successfully completed 12 credit points of second year subjects. Enrolment is restricted to students with an approved placement</i>			
	Major MA3211:03 Mathematical Modelling and Differential Equations <i>PREREQ: MA2000 and (MA2210 or MA2201)</i>		Major MA3210:03 Probability and Stochastic Processes <i>PREREQ: MA2000 and (MA2210 or MA2201)</i>	
	Elective		Major MA3212:03 Optimisation and Operations Research <i>PREREQ: MA2000 and (MA2210 or MA2201)</i>	
	Elective		Elective	
	Elective			

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	
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- <i>EXTERNAL OFFERING</i>	
		CP1404:03 Programming II	
		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- <i>EXTERNAL OFFERING</i>

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

[2023 Bachelor of Science Handbook](#)
[Mathematics Major](#)