Bachelor of Science MAJOR Mathematics

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

**NOTE-This second major study plan should NOT be used to map a double major with physics or data science.*
These double majors have specific study plans that should be used instead.

	STUDY PERIOD 1	STUDY PERIOD 2
Year 1	Course **SC1101**:03 Science Technology and Truth	Course **SC1102**:03 Modelling Natural Systems *PREREQ: MA1020 or MA0020 or Senior Mathematics or equivalent* or **SC1109**:03 Modelling Natural Systems-Advanced ^ *PREREQ: MA1000 or MA1009*
	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 **MA1000**:03 Mathematical Foundations *PREREQ: MA1020 or MA0020 or Maths B or Maths C*	Major **MA1003**:03 Mathematical Techniques *PREREQ: MA1000 or MA1011 or MA1009*
	Second Major	**Second Major**

^Note: SC1109 is compulsory in the Adv 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 *PREREQ: SC1102* or **SC2209**:03 Quantitative Methods in Science-Advanced *PREREQ: MA1003 and SC1109 plus 6 credit points of level 1 subjects*	Course Select a SKILL SUBJECT from **List 2** *Subjects are available across a number of study periods/trimesters, see List 2 for full availabilities.*
Major **MA2000**:03 Mathematics for Scientists and Engineers *PREREQ: MA1003*	Major **MA2210**:03 Linear Algebra *PREREQ: MA1003*
Second Major	**Second Major**
	Second Major

TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
Major **MA2211**:03 Discrete Mathematics *PREREQ: Maths B or MA1020 or MA0020*		

Year 3

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

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

TRIMESTER 3
CP2404:03 Database Modelling CP2404:03 Database Modelling **EXTERNAL OFFERING*

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

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Mathematics Major