

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**

2022

DEGREE	Bachelor of Advanced Science	MAJOR Mathematics (MTM)
NAME _		MAJOR Choose a second major

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

	Study Period 1 - SP1	Study Period 2 - SP2
Year 1	<b>Degree Core:</b> SC1101 Science Technology and Truth	Degree Core: SC1109 Modelling Natural Systems- Advanced PREREQ: MA1000 OR MA1009
	<b>Degree Core:</b> MA1000 Mathematical Foundations PREREQ: MA1020 OR MATHEMATICS B OR MATHS C	Degree Core: MA1003 Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009
	Major Core: PH1005 Advanced Stream Physics 1 PREREQ: Maths B OR MA1020 OR MA1000 OR MA1008.	Major Core: PH1007 Advanced Stream Physics 2 PREREQ: ((MATHS B OR EQUIVALENT OR MA1020) AND PH1005) OR (PHYSICS AND MATHS C)
	Students who have not completed High School Chemistry (or equivalent) must take Degree Core: CH1020 Preparatory Chemistry# #This subject is equivalent to chemistry from high school. OR	Major Core:
	Elective - if student has completed high school level Chemistry or equivalent CP1401 Problem Solving and Programming I - Trimester 1 Recommended	

Year 2	Study Period 1 - SP1	Study Period 2 - SP2
	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 Engineers PREREQ: MA1003	Major Core:
	Major Core: MA2211 Discrete Mathematics PREREQ: MATHS B	Major Core:
	Major Core:	Major Core:

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Option Core:	
	SC3008 Professional Placement	
	PREREQ: COMPLETED 12CP SECOND YEAR SUBJECTS  OR	
	SC3003 Science Research Internship PREREQ: 15CP OF AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH OR SC SCIENCE LEVEL 2 SUBJECTS	
	All available in multiple study periods	
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Year	<u>Degree Core List 1:</u> Advanced Skill Subjects	
	Major Core: MA3211 Mathematical Modelling and	Maior Corres NAA 2210 Dreshability and Chashaptia Dressassa
	Differential Equations	Major Core: MA3210 Probability and Stochastic Processes PREREQ: MA2000 AND (MA2210 OR MA2201)
	PREREQ: MA2000 AND (MA2210 OR MA2201)	PRENEQ. MAZZOO AND (MAZZOO)
	Major Core:	Major Core: MA3212 Optimisation and Operations
		Research
		PREREQ: MA2000 AND (MA2210 OR MA2201)
	Major Core:	Major Core:

## **Further Degree Options:**

Degree Core List 1: Advanced Skill Subjects		
Study Period 1 – SP1	Study Period 2 – SP2	
BS5260 Modelling Ecological Dynamics	BC5203 Advanced Bioinformatics	
MA2000 Mathematics for Scientists and Engineers	SC5502 Design and Analyses in Ecological Studies	
<u>EA5409</u> Mineralogy and Geophysics – Not currently offered	CH5002 Research Skills and Communication in Chemistry (Adv)	
	PH5014 Research Skills and Communication in Physics (Advanced) – Not currently offered	

## **ADDITIONAL COURSE RULES**

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 COURSE REQUIREMENTS**

Some majors require attendance in intensive or mixed mode attendance subjects on either the Townsville or Cairns campus. If students must attend intensive mode classes at a campus other than the one they are enrolled at, they are responsible for their own expenses.

## **COURSE PROGRESSION REQUISITES**

Must successfully complete 18 credit points of Level 2 science subjects before attempting any Level 5 science subject

## **ADDITIONAL INFORMATION**

<u>Bachelor of Advanced Science course handbook</u> <u>Mathematics major handbook</u>