

equivalent) must take

Chemistry#

from high school.

Degree Core: CH1020 Preparatory

#This subject is equivalent to chemistry

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.

PREREQ: CP1401 OR EG1002

RECOMMENDED STUDY PLAN

2022

	DEGREE Bachelor of Adva	nced Science	MAJOR Data S	Science (DSC)
	NAME		_MAJOR Choos	se a second major
	•	ould prefer a part-	time study plan,	t with your <u>CSE Course/Major Advisor</u> and please adjust the below planner, see completion.
Year 1	Study Period 1 - SP1		Study Period 2 - SP2	
	Degree Core: SC1101 Science Technology and Truth		Degree Core: SC1109 Modelling Natural Systems- Advanced PREREQ: MA1000 OR MA1009	
	Degree Core: MA1000 Mathematical Foundations PREREQ: MA1020 OR MATHEMATICS B OR MATHS C		Degree Core: MA1003 Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009	
	Major Core:		Major Core: MA1580 Foundations of Data Science PREREQ: MA1000 OR MA1020 OR MATHS B	
Trimester 1 (Feb-May)				Trimester 3 (Sept-Dec)
Elective - CP1401 Problem Solving and Programming I — REQUIRED - Students in this major must choose this subject to satisfy course requirements				Maior Coro CP1404 Programmina II
	dents who have not completed n School Chemistry (or			Major Core: CP1404 Programming II - REQUIRED - Students in this major must choose this subject to satisfy course requirements PRERFO: CP1401 OR FG1002

Note-Depending on what second major you have chosen, you may need to take a second subject for your additional major in SP2 in Year 1. This will give you 9 subjects within your first year instead of 8. Please discuss this with your CSE academic advisor for your second major to confirm if you will need to do this for your chosen second major. For example, it is recommended that an Earth Science major, take EA1110 in SP2 and chemistry majors take CH1002 in SP2.

	Study Period 1 - SP1	Study Period 2 - SP2	
Year 2	SC2209 Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Major Core: MA2405 Advanced Statistical Modelling PREREQ: MA1401 OR MA2401 OR SC2202/SC2209	
	Major Core List 1: MA2830 Data Visualisation - Recommended	Major Core: MA3405 Statistical Data Mining for Big Data PREREQ: MA2405 OR MA2000 OR SC2202/SC2209	
	Major Core:	Major Core:	
	Major Core:		

Trimester 3 (Sept-Dec)

Major Core List 1: <u>CP2404</u> Database Modelling -Recommended

	Study Period 1 - SP1	Study Period 2 - SP2			
	Degree Option Core:				
	SC3008 Professional Placement				
	PREREQ: COMPLETED 12CP SECOND YEAR SUBJECTS				
	OR COMMON				
	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				
ar 3	<u>Degree Core List 1:</u> Advanced Skill Subjects				
Yea	Major Core: MA3831 Natural Language Processing, Web Scraping and Large Data Processing PREREQ: CP1404 AND MA3405	Major Option Core: MA3832 Neural Network & Deep Learning-Recommended PREREQ: MA3405 AND CP1404 OR MA3212 Optimisation and Operations Research - TSV only PREREQ: MA2000 AND (MA2210 OR MA2201			
	Major Core:	Major Core:			
	Major Core:	Major Core:			

Further Degree Options:

Major Core List 1:		
Study Period 1 – SP1	Study Period 2 – SP2	
MA2211 Discrete Mathematics- TSV only PREREQ: MATHS B	MA2210 Linear Algebra PREREQ: MA1003	
MA2830 Data Visualisation		

Trimester 3 (Sept-Dec)		
CP2404 Database Modelling		

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.

Students must select CP1401 as one of their undergraduate subject electives.

This major is only possible as a second major if students have satisfied CH1020 subject material prior to commencing this course.

COURSE PROGRESSION REQUISITES

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

ADDITIONAL INFORMATION

Bachelor of Advanced Science course handbook

Data Science major handbook