

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

SC2209 Quantitative Methods in Science-Advanced-

PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1

PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200

Recommended for this Major!

Degree Opt Core Breadth-List 1:

Elective/Minor/2nd Major:

CP1404 Programming II - Required

Mid-Year Entry 2021

	DEGREE Bachelor of Science	MAJOR Data Science (DSC)			
	NAME To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor and refer to Subject Search . 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			
1 50	MID-YEAR	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.			
-	ENTRY	Degree Opt Core <u>Breadth-List 1</u> : <u>CP1401</u> Problem Solving and Programming I-Required			
		Major Core: MA1000 Mathematical Foundations PREREQ: MA1020 OR MATHEMATICS B OR MATHS C			
		Major Core: MA1580 Foundations of Data Science PREREQ: MA1000 OR MA1020 OR MATHS B			
	Study Period 1 - SP1	Study Period 2 - SP2			
	Degree Core: <u>SC1101</u> Science Technology and Truth	Degree Opt Core SC1109 Modelling Natural Systems-Adv^-Recommended PREREQ: MA1000 OR MA1009 OR SC1102 Modelling Natural Systems PREREQ: MA1020			
J	Degree Core: SC2202 Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MATHS B OR EQUIVALENT OR	Major Core: MA2405 Advanced Statistical Modelling			

This would be the Degree Core - <u>MA1020</u>

Preparatory Math but the assumption is the student has passed the screening test and passed relevant Maths at secondary school.

Elective/Minor/2nd Major:

<u>MA1003</u> Mathematical Techniques – Recommended PREREQ: MA1000 OR MA1011 OR MA1009

PREREQ: MA1401 OR MA2401 OR SC2202/SC2209

PREREQ: MA2405 OR MA2000 OR SC2202/SC2209

Major Core: MA3405 Statistical Data Mining for Big Data

[^] 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
	Degree Core: SC3010 Sensors and Sensing for	Degree Opt Core Skill-List 2
	Scientists	<u>MA2210</u> Linear Algebra - Recommended
	PREREQ: SC2202/SC2209	PREREQ: MA1003
		Major Core:
		MA3832 Neural Network & Deep Learning-Recommended
m		PREREQ: MA3405 AND CP1404
Year	viajor core cist 1. er 2404 battabase Modelling	OR
Ϋ́	∀	MA3212 Optimisation and Operations Research - TSV only
		PREREQ: MA2000 AND (MA2210 OR MA2201)
		Elective/Minor/2 nd Major:
	Major Core List 1: MA2830 Data Visualisation	<u>CP3404</u> Information Security – Recommended
		PREREQ: 6CP OF CP SUBJECTS AND 12CP OF SUBJECTS
	Major Core: MA3831 Natural Language Processing,	Elective/Minor/2 nd Major:
	Web Scraping and Large Data Processing	Licetive/ivillion/2 iviajon.
	PREREQ: CP1404	

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: <u>SC3008</u> Professional Placement - available any SP	
Year 4	Elective/Minor/2 nd Major:	MID-YEAR
>	Elective/Minor/2 nd Major:	COMPLETION
	Elective/Minor/2 nd Major:	

Further Degree Options:

Major Core List 1:	
Study Period 1 – SP1	Study Period 2 – SP2
CP2404 Database Modelling	MA2211 Discrete Mathematics PREREQ: MATHS B
MA2830 Data Visualisation	MA2210 Linear Algebra PREREQ: MA1003

<u>Skill-List 2</u> :	
Study Period 1 – SP1	Study Period 2 – SP2
	EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS
	CH2103 Analytical Chemistry – TSV only PREREQ: CH1001 OR CH1011
	MA2210 Linear Algebra PREREQ: MA1003

Breadth-List 1:	
Study Period 1 – SP1	Study Period 2 – SP2
CP1401 Problem Solving and Programming I	
	<u>OR</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	CU1002 Chamistry Dringinles & Applications TSV only
OR	CH1002 Chemistry: Principles & Applications – TSV only PREREQ: CH1001 OR CH1011
<u>BZ1006</u> Diversity of Life – CNS only	PREREQ. CHIOOI ON CHIOII
CH1001 Chemistry: A Central Science	EA1110 Evolution of the Earth
PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY	EATTO EVOIDION OF THE EARTH
EG1000 Engineering 1	MA1003 Mathematical Techniques
	PREREQ: MA1000 OR MA1011 OR MA1009
	PH1007 Advanced Stream Physics 2 – TSV only
EV1005 Environmental Processes & Global Change	PREREQ: ((MATHS B OR EQUIVALENT OR MA1020) AND PH1005) OR
	(PHYSICS AND MATHS C)
PH1005 Advanced Stream Physics 1	
PREREQ: Maths B OR MA1020 OR MA1000 OR MA1008.	

^{**}CP1404 has been added to the structure from 2019. We would prefer if you would take CP1404.