

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: MA1000 OR MA1020 OR MATHS B- Allow concurrent

enrolment with MA1020

RECOMMENDED STUDY PLAN

Mid-Year Entry 2021

DEGREE Bachelor of Science	MAJOR <u>Data Science (DSC)</u>
NAME	
	ommend you consult with your CSE Course/Major Advisor and part-time study plan, please adjust the below planner, are on track for course completion.
who are suitably qualified can replace core pre	plemented screening testing in this degree so that students eparatory subjects with elective subjects. The screening tests ir Maths Methods (or equivalent) have been studied at
	Study Period 2 - SP2
	* This core subject may be replaced by an elective if you pass the maths screening test (held during orientation week). The screening test needs to be completed even if Maths Methods (or equivalent) has been studied at secondary school.
MID-YEAR ENTRY	If you pass the math competency test, please take MA1000 in this semester as opposed to SP1 in Yr2. 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.
	Degree Opt Core <u>Breadth-List 1</u> : <u>CP1401</u> Problem Solving and Programming I-Required Major Core: MA1580 Foundations of Data Science

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: SC1101 Science Technology and Truth	Degree Opt Core SC1109 Modelling Natural Systems-Adv^-Recommended PREREQ: MA1000 OR MA1009 OR SC1102 Modelling Natural Systems PREREQ: MA1020
Year 2	Degree Core: SC2202 Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MATHS B OR EQUIVALENT OR SC2209 Quantitative Methods in Science-Advanced- Recommended for this Major! 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: MA1000 Mathematical Foundations PREREQ: MA1020 OR MATHEMATICS B OR MATHS C	Major Core: MA3405 Statistical Data Mining for Big Data PREREQ: MA2405 OR MA2000 OR SC2202/SC2209
	Degree Opt Core Breadth-List 1: CP1404 Programming II - Required PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201	Elective/Minor/2 nd Major: MA1003 Mathematical Techniques – Recommended PREREQ: MA1000 OR MA1011 OR MA1009

[^] 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	MA2210 Linear Algebra - Recommended
	PREREQ: SC2202/SC2209	PREREQ: MA1003
		Major Core:
	Major Core List 1: CP2404 Database Modelling	MA3832 Neural Network & Deep Learning-Recommended
m		PREREQ: MA3405 AND CP1404
Year		OR
₹		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/ivillioi/2 iviajoi.
	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

Breadth-List 1:	
Study Period 1 – SP1	Study Period 2 – SP2
<u>CP1401</u> Problem So	olving and Programming I
<u>OR</u>	
<u>CP1404</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	CH1002 Chemistry: Principles & Applications – TSV only
OR	PREREQ: CH1001 OR CH1011
<u>BZ1006</u> Diversity of Life – CNS only	THEREQ. GITTOT ON GITTOT
CH1001 Chemistry: A Central Science	EA1110 Evolution of the Earth
PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY	EXTITO EVOLUTION OF the Edith
EG1000 Engineering 1	MA1003 Mathematical Techniques
PREREQ: MA1000 OR MA1011 OR MA1009	,
FV100F Environmental Processes & Clobal Charac	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)
DI11005 Advanced Streem Dhysics 1	(FITISICS AND INIATIDS C)
PH1005 Advanced Stream Physics 1 PREREO: Maths B OR MA1020 OR MA1000 OR MA1008.	
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^{**}CP1404 has been added to the structure from 2019. We would prefer if you would take CP1404.

<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