

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

2021

DEGREE	Bachelor of Advanced 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.

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
	Elective/Minor/2 nd Major: <u>CP1401</u> Problem Solving and Programming I- <i>Required</i>	Major Core: MA1580 Foundations of Data Science PREREQ: MA1000 OR MA1020 OR MATHS B
		Major Core: CP1404 Programming II PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200 OR SC1201

SP3 (Jan-Feb)

Degree Core: CH1020 Preparatory Chemistry # # This subject is equivalent to chemistry from high school. This core subject may be replaced by an elective if you pass the chemistry competency test.

Year 2	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: 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: CP2404 Database Modelling	Major Core: MA3405 Statistical Data Mining for Big Data PREREQ: MA2405 OR MA2000 OR SC2202/SC2209
	Major Core List 1: MA2830 Data Visualisation	Elective/Minor/2 nd Major:
	Elective/Minor/2 nd Major:	Elective/Minor/2 nd Major:

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core:	
	SC3008 Professional Placement - available any SP	
		OR
	SC3003 Science Research Internship - available any SP	
8	Major Core: MA3831 Natural Language Processing,	
	Web Scraping and Large Data Processing	Degree Core List 1:
	PREREQ: CP1404	
	Elective/Minor/2 nd Major:	Major Core:
Year		MA3832 Neural Network & Deep Learning-Recommended
		PREREQ: MA3405 AND CP1404
		OR
		MA3212 Optimisation and Operations Research - TSV only
		PREREQ: MA2000 AND (MA2210 OR MA2201)
	Elective/Minor/2 nd Major:	Elective/Minor/2 nd Major:
		<u>CP3404</u> Information Security – Recommended
		PREREQ: 6CP OF CP SUBJECTS AND 12CP OF SUBJECTS
	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	

Degree Core List 1: Advanced Skill Subjects		
Study Period 1 – SP1	Study Period 2 – SP2	
	BC5203 Advanced Bioinformatics	
	BS5260 Modelling Ecological Dynamics	
	CH5002 Research Skills and Communication in Chemistry (Adv)	
EA5409 Mineralogy and Geophysics – Not currently offered	PH5014 Research Skills and Communication in Physics (Advanced) – Not currently offered	

SP3 (Jan-Feb)

SC5502 Design and Analyses in Ecological Studies – This subject will move to SP2 in 2022