

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) - with recommended subjects
NAME		

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor 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
ar 1	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
Yea	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.

	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
Year 2	Major Core List 1: CP2404 Database Modelling	Major Core: MA3405 Statistical Data Mining for Big Data PREREQ: MA2405 OR MA2000 OR SC2202/SC2209
Ye	Major Core List 1: MA2830 Data Visualisation	Elective/Minor/2 nd Major: <u>MA2210</u> Linear Algebra - Recommended PREREQ: MA1003
	Elective/Minor/2 nd Major: <u>MA2000</u> Mathematics for Scientists and Engineers – <i>Recommended</i> PREREQ: MA1003	Elective/Minor/2 nd Major: CP2406 Programming III – Recommended PREREQ: CP1404 OR CP1804 OR CP1300

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core:	
	<u>SC3008</u> Professional P	lacement - available any SP
		OR
	SC3003 Science Research	n Internship <i>- available any SP</i>
	Major Core: MA3831 Natural Language Processing,	
	Web Scraping and Large Data Processing	Degree Core List 1:
	PREREQ: CP1404	
Year 3	Elective/Minor/2 nd Major:	Major Core:
		MA3832 Neural Network & Deep Learning-Recommended
		PREREQ: MA3405 AND CP1404
		OR MA2212 Ontimisation and Operations Research TSV only
		MA3212 Optimisation and Operations Research - TSV only PREREQ: MA2000 AND (MA2210 OR MA2201)
	Elective/Minor/2 nd Major:	Elective/Minor/2 nd Major:
		CP3404 Information Security – Recommended
		PREREQ: 6CP OF CP SUBJECTS AND 12CP OF SUBJECTS
		Elective/Minor/2 nd Major:
		MA3212 Optimisation and Operations Research - TSV only
		– Recommended
		PREREQ: MA2000 AND (MA2210 OR MA2201)

Further Degree Options:

will move to SP2 in 2022

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	

Study Period 1 – SP1	Study Period 2 – SP2
Study Period 1 – 3F1	Study Feriou 2 – 3F2
	BC5203 Advanced Bioinformatics
	BS5260 Modelling Ecological Dynamics
	CH5002 Research Skills and Communication in Chemistry (Adv)
<u>EA5409</u> Mineralogy and Geophysics – Not cu offered	tly <u>PH5014</u> Research Skills and Communication in Physics (Advanced) – Not currently offered
SP3 (Jan-Feb)	·