



# Bachelor of Science

## MAJOR Data Science

This study plan should be used as a general guide for your course. We recommend you consult with





		STUDY PERIOD 1	STUDY PERIOD 2
<b>Year 2</b>	Course	<b>SC2202:03</b> Quantitative Methods in Science <i>PREREQ: SC1102 or SC1109</i> or <b>SC2209:03</b> Quantitative Methods in Science-Advanced <i>PREREQ: SC1109 and MA1003 plus 6 credit points of other Level 1 subjects</i>	Major <b>MA2405:03</b> Advanced Statistical Modelling <i>PREREQ: MA1401 or BZ2001 or MA2401 or SC2202 or SC2209 and MA1000</i>
	Course	Select a subject from <b>List 2 (Skills Subjects)</b>	Major <b>MA3405:03</b> Statistical Data Mining for Big Data <i>PREREQ: MA2405 or MA2000 or SC2202 or SC2209</i>
	Major	Select 3 credit points from <b>Major List 1</b> <i>MA2830 Data Visualisation - Recommended</i>	Major Select 3 credit points from <b>Major List 1</b> <i>CP2404 Database Modelling – Recommended (TR3)</i>
	<b>Elective</b>		<b>Elective</b>

		STUDY PERIOD 1	STUDY PERIOD 2
<b>Year 3</b>	Course	<b>SC3008:03</b> Professional Placement Select Availability in Study Period 1, 2, 3, 7 or 11 <i>PREREQ: Students must have successfully completed 12 credit points of second year.            Enrolment is restricted to students with an approved placement</i>	
	Major	<b>MA3831:03</b> Natural Language Processing, Web Scraping and Large Data Processing <i>PREREQ: CP1404 and MA3405</i>	Major <b>MA3832:03</b> Neural Network and Deep Learning <i>PREREQ: MA3405 or MA5405 and CP1404</i> OR <b>MA3212:03</b> Optimisation and Operations Research <i>PREREQ: MA2000 and (MA2210 or MA2201)</i>
	<b>Elective</b>		<b>Elective</b>
	<b>Elective</b>		<b>Elective</b>
	<b>Elective</b>		



## BREADTH SUBJECTS - LIST 1

STUDY PERIOD 1	STUDY PERIOD 2
BM1000:03 Introductory Biochemistry and Microbiology <i>PREREQ: Allow concurrent enrolment in CH1020, CH0020 or Senior Chemistry</i>	BS1001:03 Introduction to Biological Processes
BS1007:03 Introduction to Biodiversity	CH1002:03 Chemistry: Principles and Applications <i>PREREQ: CH1001 OR CH1011 and allow concurrent for Ch1011 and CH1001</i>
CH1001:03 Chemistry: A Central Science <i>PREREQ: CH1020, CH0020 or EG1010 or High School Senior Chemistry</i>	EA1110:03 Evolution of the Earth
EG1000:03 Engineering 1	MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 MA1011 or MA1009</i>
EV1005:03 Environmental Processes and Global Change	<del>MA1580:03 Foundations of Data Science</del> <del><i>PREREQ: MA1000 or MA1020 or MA0020 or Maths B</i></del>
<del>MA1000:03 Mathematical Foundation</del> <del><i>PREREQ: MA1020 or MA0020 or Maths B or Maths C</i></del>	PH1007:03 Advanced Stream Physics 2 <i>PREREQ: ((Maths B or equivalent or MA1020 or MA0020) and PH1005) or (Physics and Maths C)</i>

