

NAME_

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

Mid-Year Entry 2022

DEGREE Bachelor of Technology and Innovation MAJOR Data Science (DSC)

To assist you with subject information, we recommend you consult with your <u>CSE Course/Major Advisor</u> 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.

Year 1

	Study Period 2 - SP2
MID-YEAR ENTRY	Degree Option Core
	SC1102 Modelling Natural Systems PREREQ: MA1020
	OR
	SC1109 Modelling Natural Systems-Advanced^ PREREQ: MA1000 OR MA1009
	Degree Core: MA1020 Preparatory Math*
	*This subject is equivalent to QLD-Maths Methods from high school.
	OR
	Elective - if student has completed high school level Mathematics B or equivalent
	Elective:
	Trimester 3 (Sept-Dec)

Degree Core: CP1403 Design Thinking

^SC1109 has more math-based tutorials and requires MA1000. It may be taken as an alternative to SC1102 if you would prefer. It is a required subject in the Advanced Science program if you are considering that pathway.

Year 2

Study Period 1 - SP1	Study Period 2 - SP2
Degree Core: SC1101 Science Technology and Truth	Major Core: MA1580 Foundations of Data Science PREREQ: MA1000 OR MA1020 OR MATHS B
Major Option Core: MA1000 Mathematical Foundations PREREQ: MA1020 OR MATHEMATICS B OR MATHS C OR CP1404 Programming II TR3 PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200	Major Core: MA2405 Advanced Statistical Modelling PREREQ: MA2401 OR SC2202/SC2209 AND MA1000
	Major Core: MA3405 Statistical Data Mining for Big Data PREREQ: MA2405 OR MA2000 OR SC2202/SC2209

Study Period 3 (Jan-Feb)

Elective:

<u>MA1003</u> Mathematical Techniques – Recommended

PREREQ: MA1000 OR MA1011 OR MA1009

Trimester 1 (Feb-May)

Elective: Additional Degree Requirement - <u>CP1401</u> Problem
Solving and Programming I – *Required*

Trimester 3 (Sept-Dec)

Degree Option Core:

CP1404 Programming II

PREREQ: CP1801 OR CP1401 OR CP1200 OR EG1002 OR CP2200

OR

CP1401 Problem Solving and Programming

Year 3

Study Period 1 - SP1	Study Period 2 - SP2
Degree Option Core: SC2202 Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MATH B OR EQUIVALENT OR	Major Option Core: MA3832 Neural Network and Deep Learning PREREQ: MA3405 AND CP1404 OR
SC2209 Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	MA3212 Optimisation and Operations Research - TSV only PREREQ: MA2000 AND (MA2210 OR MA2201)
Degree Core: MA2830 Data Visualisation	Major Core List 1: MA2210 Linear Algebra PREREQ: MA1003
Elective:	Degree Core: EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS

Trimester 3 (Sept-Dec)

Degree Core: BX3173 Innovation Driven

Entrepreneurship PREREQ: 18CP OF SUBJECTS

Major Core List 1:

CP2404 Database Modelling -

Recommended

Year 4

Further Degree Options:

Major Core List 1:		
Study Period 1 – SP1	Study Period 2 – SP2	
MA2830 Data Visualisation -this subject is core in this degree and as such is not available in this list	MA2210 Linear Algebra PREREQ: MA1003	
MA2211 Discrete Mathematics – TSV only PREREQ: MATHS B		

Trimester 3 (Sept-Dec)		
CP2404 Database Modelling		

COURSE INCLUDES MANDATORY PROFESSIONAL PLACEMENT(S)

This course includes prescribed professional placements. Students may be required to undertake such placements away from the campus at which they are enrolled, at their own expense.

ADDITIONAL INFORMATION

<u>Bachelor of Technology and Innovation course handbook</u> <u>Data Science major handbook</u>