Bachelor of Science (Data Science)

Useful study planning/enrolment resources:

Subject Search
Academic Calendars
Class Registration
Enrolment Resources

The information in the study planner is current at the time of creation may be subject to future change.

Attention International Student visa holders: To remain compliant with your enrolments requirements as a Student visa holder you are required to enrol in at least one On-Campus, Multi-Modal or WIL subject offering in each compulsory study period and you cannot enrol in more than one third (33%) of your total course load through online or distance learning. To complete your course within your CoE duration students must maintain sufficient subject enrolment.
If there are only Online subject offerings for you to select in a compulsory study period, contact enrolments@jcu.edu.au urgently for enrolment advice.

The College of Science and Engineering will be offering some subjects in Block 3 and Block 4 (see the Academic Calendar for Block 3 and 4 dates). International students must maintain enrolment in subjects across the whole Trimester 2 period (May - August) and can do this by enrolling in a combination of Block 3 and Block 4 subjects, and/or Trimester 2 subjects and full-time enrolment load in an academic year.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2025			MA1020:03 Preparatory Mathematics (or any Level 1, 2 or 3 or 5 subject if already satisfied via previous study) *Cairns students must enrol online*
			Major MA1580:03 Foundations of Data Science
			Major Elective from **List 1**

2026	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
	CH1020:03 Preparatory Chemistry (or any Level 1, 2 or 3 or 5 subject if already satisfied via previous study)	**Major** MA1000:03 Mathematical Foundations *PREREQ: MA1020 OR MA0020 OR BR0202 OR High school subjects: Mathematical Methods or Specialist Mathematics (or equivalent such as Maths B or Maths C)*	SC1102:03 Modelling Natural Systems *PREREQ: MA1020 or MA0020 or Senior Mathematics or equivalent* **OR** SC1109:03 Modelling Natural Systems – Advanced^ *PREREQ: MA1000 or MA1009*
	SC1101:03 Science, Technology and Truth	Elective **OR** Second Major Subject *(depending on chosen structure)*	**Major** MA2405:03 Advanced Statistical Modelling *PREREQ: MA1401 or BZ2001 or MA2401 or SC2202 or SC2209 and MA1000*
	Major Elective from List 1		Elective **OR** Second Major Subject *(depending on chosen structure)*

^Note: SC1109 is compulsory in the Advanced BSc Program and should be taken instead of SC1102 if you are considering that pathway.

2027	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
	SC2202:03 Quantitative Methods in Science *PREREQ: SC1102 or SC1109* **OR** SC2209:03 Quantitative Methods in Science-Advanced *PREREQ: MA1003 and SC1109 plus 6 credit points of other Level 1 subjects*	Elective from List 1 **(Breadth Subjects)** *Students studying Data Science as a single major must select CP1404.* *PREREQ: CP1801 or CP1401 or CP1200 or EG1002 or CP2200 or SC1201* *(TR2, TR3)* **OR** Second Major Subject *(depending on chosen structure)*	SC3008:03 Professional Placement (TRI 1, TR2 or TR3) *PREREQ: 12 credit points of Level 2 subjects. Enrolment is restricted to students with an approved placement.* **OR** SC3003:03 Science Research Internship (TRI 1, TR2 or TR3) *PREREQ: 15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC science level 2 subjects* **Students wishing to enrol in SC3003 must have a minimum GPA of 5.5 and a supervisor for their internship*
	Elective from List 1 **(Breadth Subjects)** *Students studying Data Science as a single major must select CP1401* *(TR1, TR2)* **OR** Second Major Subject *(depending on chosen structure)*	Elective **OR** Second Major Subject *(depending on chosen structure)*	**Major** MA3405:03 Statistical Data Mining for Big Data *PREREQ: MA2405 or MA2000 or SC2202 or SC2209*
	Elective from List 2 **(Skill Subjects)**		Elective **OR** Second Major Subject *(depending on chosen structure)*

^ Note: Students studying the Data Science major must take CP1401 and CP1404 to satisfy prerequisites within their course. Please refer to the course structure for details.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2028	**Major** MA3831:03 Natural Language Processing, Web Scraping and Large Data Processing *PREREQ: CP1404 and MA3405*	**Major** MA3832:03 Neural Network and Deep Learning *PREREQ: MA3405 or MA5405 and CP1404* **OR** MA3212:03 Optimisation and Operations Research *PREREQ: MA2000*	
	Elective **OR** Second Major Subject *(depending on chosen structure)*	Elective **OR** Second Major Subject *(depending on chosen structure)*	
	Elective **OR** Second Major Subject *(depending on chosen structure)*		

COURSE HANDBOOK

Bachelor of Science
Data Science Major