Bachelor of Advanced 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 TR2, Block 3 and/or Block 4 subjects.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2025			**Major** MA1580:03 Foundations of Data Science
			Major Elective from **List 1** *Students studying Data Science as a single major must select MA2210* *PREREQ: MA1000 or CP2404*
			Elective **OR** Second Major Subject *(depending on chosen structure)*

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026	CH1020:03 Preparatory Chemistry (or any Level 1, 2 or 3 or 5 subject if already satisfied via previous study)	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)*	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)*	MA1003:03 Mathematical Techniques *PREREQ: MA1000 or MA1011 or MA1009*
	Elective **OR** Second Major Subject *(depending on chosen structure)* *Students studying Data Science as a single major must select CP1401*		**Major** CP1404:03 Programming II *PREREQ: CP1801 or CP1401 or CP1200 or EG1002 or CP2200 or SC1201*

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	SC2209:03 Quantitative Methods in Science-Advanced *PREREQ: MA1003 and (SC1109 plus 6 credit points of other Level 1 subjects) or admission in 116409*	**Major** Elective from **List 1** *Students must select MA2211* *PREREQ: Maths B or MA1020 or MA0020*	**Major** MA2405:03 Advanced Statistical Modelling *PREREQ: MA1401 or BZ2001 or MA2401 or SC2202 or SC2209 and MA1000*
	Elective **OR** Second Major Subject *(depending on chosen structure)* **MA2000 recommended to enable selection of alternate core MA3212*	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 **OR** Second Major Subject *(depending on chosen structure)*		Elective **OR** Second Major Subject *(depending on chosen structure)*

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2028	**Major** MA3831:03 Natural Language Processing, Web Scraping and Large Data Processing *PREREQ: CP1404 and MA3405*	SC3008:03 Professional Placement (TR1, TR2, TR3) *PREREQ: 12 credit points of second year subjects. Enrolment is restricted to students with an approved placement.* **OR** SC3003:03 Science Research Internship (TR1, TR2, TR3) *PREREQ: 15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC science level 2 subjects*	
	Elective from **List 1 (Advanced Skill Subjects)**	**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)*		