Bachelor of Science (Mathematics)

Useful study planning/enrolment resources:

- Course and Subject Handbook
- 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 you are receiving US Federal Aid, there are further compliance considerations. Please contact financialaid@jcu.edu.au to confirm compliance of your subject selections.

Student Resources: If you require advice about your study plan, choosing electives, or which subjects to enrol in, please contact your major advisor or degree coordinator (CSE Course and Major Advisors). For information on available elective subject options please also refer to the Study Area guide (2026 JCU STUDY AREA GUIDE — College of Science & Engineering).

Your plan may include subjects labelled with ***Intensive on-campus requirements***. These subjects involve mandatory on-campus or fieldwork attendance with extended hours over a dedicated face-to-face period. Please check the face-to-face dates for the subject in the subject handbook and do not enrol in subjects with overlapping face-to-face dates. For more information, see the CSE Student Guide to Succeeding in Trimester 2 Intensives on the CSE Student Resources webpage.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026			MA1020:03 Preparatory Mathematics (or any Level 1, 2, 3 or 5 subject if already satisfied via previous study)
			Elective **OR** Second Major Subject *(Depending on chosen structure)*
			Elective **OR** Second Major Subject *(Depending on chosen structure)*

2027	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
	SC1101:03 Science, Technology and Truth	CH1020:03 Preparatory Chemistry (or any Level 1, 2, 3 or 5 subject if already satisfied via previous study)	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*
	Major MA1000:03 Mathematical Foundations *PREREQ: MA1020 or MA0020 or BR0202 or High School Senior Mathematics or equivalent*	**Major** MA2211:03 Discrete Mathematics *PREREQ: Maths B or MA1020 or MA0020*	**Major** MA1003:03 Mathematical Techniques *PREREQ: MA1000 or MA1011 or MA1009*
	Elective subject from List 1 **(Breadth Subjects)** **Recommended – CP1401:03 Problem Solving and Programming I* **OR** Second Major Subject *(Depending on chosen structure)*		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.

2028	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) or admission in 116409)*	Elective subject from List 1 **(Breadth Subjects)** **Recommended – CP1404:03 Programming II* *PREREQ: CP1401* *Online* **OR** Second Major Subject *(Depending on chosen structure)*	**Major** MA2210:03 Linear Algebra *PREREQ: MA1000*
	Major MA2000:03 Mathematics for Scientists and Engineers *PREREQ: MA1003*	Elective **OR** Second Major Subject *(Depending on chosen structure)*	**Major** MA3210:03 Probability and Stochastic Processes *PREREQ: MA2000*
	Elective **OR** Second Major Subject *(Depending on chosen structure)*		Select 3 credit points of List 2 **(Skills Subjects)** **Recommended – CP2404:03 Database Modelling*

2029	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
	Major MA3211:03 Mathematical Modelling of Dynamic Systems *PREREQ: MA2000*	SC3008:03 Professional Placement (TR1, TR2, TR3) *PREREQ: 12 credit points of second year subjects* **OR** SC3003:03 Science Research Internship* (TR1, TR2, TR3) *PREREQ: 15 credit points of Science Level 2 subjects plus a GPA of 5.5 or above* **Students must source a supervisor for their internship before enrolment*	
	Elective **OR** Second Major Subject *(Depending on chosen structure)*	**Major** MA3212:03 Optimisation and Operations Research *PREREQ: MA2000*	
	Select 3 credit points of any Level 1, 2, 3 or 5 subjects		

COURSE HANDBOOK

Bachelor of Science
Mathematics Major