# Bachelor of Advanced Science (Mathematics)

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**<br>Elective from **List 1** **(Breadth Subjects)** |
| | | | Elective<br>**OR**<br>Second Major Subject<br>*(depending on chosen structure)* |
| | | | Elective<br>**OR**<br>Second Major Subject<br>*(depending on chosen structure)* |

| | TRIMESTER 1 | TRIMESTER 2 | TRIMESTER 3 |
|---|---|---|---|
| 2026 | CH1020:03 Preparatory Chemistry<br>(or any Level 1, 2 or 3 or 5 subject if already satisfied via previous study) | MA1000:03 Mathematical Foundations<br>*PREREQ: MA1020 OR MA0020 OR BR0202 OR High school subjects: Mathematical Methods or Specialist Mathematics (or equivalent such as Maths B or Maths C)* | MA1003:03 Mathematical Techniques<br>*PREREQ: MA1000 or MA1011 or MA1009* |
| | SC1101:03 Science Technology and Truth | Elective<br>**OR**<br>Second Major Subject<br>*(depending on chosen structure)* | SC1109:03 Modelling Natural Systems – Advanced<br>*PREREQ: MA1000 or MA1009* |
| | **Major**<br>Elective from List 1 **(Breadth Subjects)** | | Elective<br>**OR**<br>Second Major Subject<br>*(depending on chosen structure)* |

| | TRIMESTER 1 | TRIMESTER 2 | TRIMESTER 3 |
|---|---|---|---|
| 2027 | SC2209:03 Quantitative Methods in Science-Advanced<br>*PREREQ: MA1003 and (SC1109 plus 6 credit points of other Level 1 subjects) or admission in 116409* | **Major**<br>MA2211:03 Discrete Mathematics<br>*PREREQ: MA1020 or MA0020 or Maths B* | **Major**<br>MA2210:03 Linear Algebra<br>*PREREQ: MA1000* |
| | **Major**<br>MA2000:03 Mathematics for Scientists and Engineers<br>*PREREQ: MA1003* | Elective<br>**OR**<br>Second Major Subject<br>*(depending on chosen structure)* | **Major**<br>MA3210:03 Probability and Stochastic Processes<br>*PREREQ: MA2000* |
| | Elective<br>**OR**<br>Second Major Subject<br>*(depending on chosen structure)* | | Elective<br>**OR**<br>Second Major Subject<br>*(depending on chosen structure)* |

| | TRIMESTER 1 | TRIMESTER 2 | TRIMESTER 3 |
|---|---|---|---|
| 2028 | **Major**<br>MA3211:03 Mathematical Modelling and Differential Equations<br>*PREREQ: MA2000 and (MA2210 or MA2201)* | SC3008:03 Professional Placement (TRI 1, TR2, TR3)<br>*PREREQ: 12 credit points of second year subjects. Enrolment is restricted to students with an approved placement.*<br>**OR**<br>SC3003:03 Science Research Internship (TRI 1, TR2, TR3)<br>*PREREQ: 15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC science level 2 subjects* | |
| | Select 3 credit points of subjects from List 1 **(Advanced Skill Subject)** | **Major**<br>MA3212:03 Optimisation and Operations Research<br>*PREREQ: MA2000* | |
| | Elective<br>**OR**<br>Second Major Subject<br>*(depending on chosen structure)* | | |

**COURSE HANDBOOK**

Bachelor of Advanced Science

Mathematics Major