Bachelor of Science (Physics)

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 there are only Online subject offerings for you to select in a compulsory study period, contact enrolments@jcu.edu.au urgently for enrolment advice.

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).

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026	SC1101:03 Science, Technology and Truth	Elective subject from **List 1 (Breadth Subjects)** **Students must select MA1000 Mathematics Foundations. NOTE: it is recommended you select MA1000 in TR1 if you have satisfied the MA1020 requirement.* **OR** Second Major Subject *(Depending on chosen structure)*	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*
	MA1020:03 Preparatory Mathematics (or any Level 1, 2, 3 or 5 subject if already satisfied via previous study)	**Major** PH1005:03 Newtonian Physics *PREREQ: Maths B or MA1020 or MA0020 or MA1000 or MA1008 or admission to 116209, 116409 or 116309. Allow concurrent for MA1020, MA1000 and MA1008*	**Major** PH1007:03 Fundamental Physics *PREREQ: (Maths B or equivalent or MA1020 or MA0020) and PH1005) or (Physics and Maths C)*
	CH1020:03 Preparatory Chemistry (or any Level 1, 2, 3 or 5 subject if already satisfied via previous study)		Elective subject from **List 1 (Breadth Subjects)** **Students must select MA1003 Mathematics Techniques.* **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 admission to Bachelor of Business and Environmental Science or admission to 116209, 116309 or 116409* **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)*	**Major** PH2019:03 Electromagnetism and Optics *PREREQ: (EG1012 or PH1005) and MA1003*	**Major** PH2002:03 Classical Mechanics and Quantum Physics *PREREQ: MA1003 and PH1005 and (PH1006 or PH1007 or (EG1012 and EG1011)*
	Major PH2048:03 Medical and Radiation Physics *PREREQ: MA1003 and PH1005 and (PH1007 or (EG1010 and EG1011 and EG1012)*	Select 3 credit points of any Level 1, 2, 3 or 5 subjects	Elective **OR** Second Major Subject *(Depending on chosen structure)*
	Elective subject from **List 2 (Skills Subjects)** **Students must select MA2000 Mathematics for Scientists and Engineers*		Elective **OR** Second Major Subject *(Depending on chosen structure)*

2028	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
	Major PH3021:03 Physics of the Earth, Solar System, and Universe *PREREQ: PH1005 and (PH1007 or EG1010 and EG1011 and EG1012)*	**Major** PH3002:03 Advanced Quantum Physics *PREREQ: MA2000*	SC3008:03 Professional Placement **(TR1, TR2, TR3)** *PREREQ: Students must have successfully completed 12 second year credit points.* **OR** SC3003:03 Science Research Internship **(TR1, TR2, TR3)** *PREREQ: Admission to BAdvSc plus 15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC Science Level 2 subjects. Students not admitted to BAdvSc must have 15 credit points of Science Level 2 subjects plus a GPA of 5.5 or above.*
	Elective **OR** Second Major Subject *(Depending on chosen structure)*	Elective **OR** Second Major Subject *(Depending on chosen structure)*	**Major** PH3008:03 Statistical Mechanics and Transport *PREREQ: MA2000 and PH1005 and (PH1007 or EG1010 and EG1011 and EG1012)*
	Elective **OR** Second Major Subject *(Depending on chosen structure)*		Elective **OR** Second Major Subject *(Depending on chosen structure)*

COURSE HANDBOOK

Bachelor of Science

Physics Major