

Bachelor of Advanced Science (Physics) (Chemistry)

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	MA1003:03 Mathematical Techniques <i>PREREQ: MA1000 or MA1011 or MA1009</i>	SC1109:03 Modelling Natural Systems-Advanced <i>PREREQ: MA1000 or MA1009</i>
	MA1000:03 Mathematical Foundations <i>PREREQ: MA1020 or MA0020 or BR0202 or High School Senior Mathematics equivalent</i>	Physics Major PH1005:03 Newtonian Physics <i>PREREQ: Maths B or MA1020 or MA0020 or MA1000 or MA1008. Allow concurrent for MA1020, MA1000 and MA1008</i>	Physics Major PH1007:03 Fundamental Physics <i>PREREQ: ((Maths B or equivalent or MA1020 or MA0020) and PH1005) or (Physics and Maths C)</i>
	CH1020:03 Preparatory Chemistry (or any Level 1, 2 or 3 or 5 subject if already satisfied via previous study) <i>*Students studying Physics major recommended to choose subject CP1401 or EG1002</i>	Chemistry Major CH1001:03 Chemistry: The Central Science <i>PREREQ: BR0301, CH1020, CH0020 or EG1010 or High School Senior Chemistry</i>	Chemistry Major CH1002:03 Chemistry: Principles and Applications <i>PREREQ: CH1001 or CH1011 and allow concurrent for CH1011 and CH1001</i>

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	SC2209:03 Quantitative Methods in Science-Advanced <i>PREREQ: SC1109 and MA1003 plus 6 credit points of other Level 1 subjects</i>	Physics Major PH2019:03 Electromagnetism and Optics <i>PREREQ: (EG1012 OR PH1005) AND MA1003</i>	Physics Major PH2002:03 Classical Mechanics and Quantum Physics <i>PREREQ: MA1003 and PH1005 and (PH1006 or PH1007 or (EG1012 and EG1011))</i>
	Physics Major PH2048:03 Medicinal and Radiation Physics <i>PREREQ: MA1003 and PH1005 and (PH1007 or (EG1010 and EG1011 and EG1012))</i>	Chemistry Major CH2310:03 Organic Chemistry <i>PREREQ: CH1001 and CH1002</i>	Chemistry Major CH2103:03 Analytical Chemistry <i>PREREQ: CH1001 or CH1011</i>
	Chemistry Major CH2210:03 Inorganic Chemistry <i>PREREQ: CH1001 and CH1002</i>		

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2028	Physics Major PH3021:03 Physics of the Earth, Solar System and Universe <i>PREREQ: PH1005 and (PH1007 or (EG1010 and EG1011 and EG1012))</i>	SC3008:03 Professional Placement (TR1, TR2, TR3) <i>PREREQ: 12 credit points of second year subjects.</i> OR SC3003:03 Science Research Internship (TR1, TR2, TR3) <i>PREREQ: 15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC science level 2 subjects</i> <i>*Students must source a supervisor for their internship before enrolment</i>	Physics Major PH3008:03 Statistical Mechanics and Transport <i>PREREQ: MA2000 and PH1005 and (PH1007 or (EG1010 and EG1011 and EG1012))</i>
	Chemistry Major CH3210:03 Applications of Inorganic Chemistry <i>PREREQ: CH2210</i>	Physics Major PH3002:03 Advanced Quantum Physics <i>PREREQ: MA2000</i>	Chemistry Major CH3110:03 Special Topics in Analytical Chemistry <i>PREREQ: CH2103</i>
	Select 3 credit points of subjects from List 1 (Advanced Skills Subjects) <i>*Students studying Physics major <u>must</u> select MA2000:03 Mathematics for Scientists and Engineers</i>		Chemistry Major CH3310:03 Special Topics in Organic Chemistry <i>PREREQ: CH2310</i>

COURSE HANDBOOK

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