

## Bachelor of Science (Physics)

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](mailto: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 Block 3 and Block 4 subjects, and/or Trimester 2 subjects and full-time enrolment load in an academic year.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2025	SC1101:03 Science Technology and Truth	CH1020:03 Preparatory Chemistry  (or any Level 1, 2 or 3 or 5 subject if already satisfied via previous study)	SC1102:03 Modelling Natural Systems  <i>PREREQ: MA1020 or MA0020 or Senior Mathematics or equivalent</i>  <b>OR</b> SC1109:03 Modelling Natural Systems-Advanced^  <i>PREREQ: MA1000</i>
	MA1020:03 Preparatory Mathematics  (or any Level 1, 2 or 3 or 5 subject if already satisfied via previous study)	<b>Major</b> PH1005:03 Newtonian Physics <i>PREREQ: Maths B or MA1020 or MA0020 or MA1000 or MA1008. Allow concurrent for MA1000 and MA1008</i>	<b>Major</b> PH1007:03 Fundamental Physics  <i>PREREQ: Maths B or equivalent or MA1020 or MA0020) and PH1005) or (Physics and Maths C)</i>
		Elective from <b>List 1 (Breadth Subjects)</b> * Students <u>must</u> select <i>MA1000 Mathematics Foundations</i>  <b>OR</b> Second Major Subject <i>(depending on chosen structure)</i>	Elective from <b>List 1 (Breadth Subjects)</b> * Students <u>must</u> select <i>MA1003 Mathematical Techniques</i>  <b>OR</b> Second Major Subject <i>(depending on chosen structure)</i>

^Note: SC1109 is compulsory in the Advanced BSc Program and should be taken instead of SC1102 if you are considering that pathway.

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2026	SC2202:03 Quantitative Methods in Science <i>PREREQ: SC1102 or SC1109</i> <b>OR</b> SC2209:03 Quantitative Methods in Science-Advanced <i>PREREQ: SC1109 and MA1003 plus 6 credit points of other Level 1 subjects</i>	<b>Major</b> PH2019:03 Electromagnetism and Optics <i>PREREQ: (EG1012 or PH1005) and MA1003</i>	<b>Major</b> PH2002:03 Classical Mechanics and Quantum Physics <i>PREREQ: MA1003 and PH1005 and (PH1006 or PH1007 or (EG1012 and EG1011))</i>
	<b>Major</b> PH2048:03 Medicinal and Radiation Physics <i>PREREQ: MA1003 and PH1005 and (PH1007 or (EG1010 and EG1011 and EG1012))</i>	Elective <b>OR</b> Second Major Subject <i>(depending on chosen structure)</i>	Elective <b>OR</b> Second Major Subject <i>(depending on chosen structure)</i>
	Elective from <b>List 2 (Skill Subjects)</b> * Students must select <i>MA2000 Mathematics for Scientists and Engineers</i>		Elective <b>OR</b> Second Major Subject <i>(depending on chosen structure)</i>

	TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
2027	<b>Major</b> PH3021:03 Physics of the Earth, Solar System and Universe <i>PREREQ: PH1005 and (PH1007 or (EG1010 and EG1011 and EG1012))</i>	<b>Major</b> PH3002:03 Advanced Quantum Physics <i>PREREQ: MA2000 AND PH2002</i>	SC3008:03 Professional Placement (TR1, TR2, TR3) <i>PREREQ: 12 credit points of second year subjects. Restricted to students with an approved placement</i> <b>OR</b> 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 and a GPA of 5.5</i> <i>*Students must source a supervisor for their internship before enrolment</i>
	Elective <b>OR</b> Second Major Subject <i>(depending on chosen structure)</i>	Elective <b>OR</b> Second Major Subject <i>(depending on chosen structure)</i>	<b>Major</b> PH3008:03 Statistical Mechanics and Transport <i>PREREQ: MA2000 and PH1005 and (PH1007 or (EG1010 and EG1011 and EG1012))</i>
	Elective <b>OR</b> Second Major Subject <i>(depending on chosen structure)</i>		Elective <b>OR</b> Second Major Subject <i>(depending on chosen structure)</i>

## COURSE HANDBOOK

[Bachelor of Science](#)  
[Physics Major](#)