Bachelor of Science

Physics

2027 ENTRY

Useful study planning / enrolment resources

Course and Subject Handbook	Academic Calendars	Class Registration	Enrolment Resources

Attention International Student visa holders: To remain compliant with enrolment 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, maintain sufficient subject enrolment. If only Online subject offerings are available 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 (JCU STUDY AREA GUIDE — College of Science & Engineering).

INTENSIVE: Subjects labelled with *Intensive 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.

How to read this planner

PREREQ Prerequisite information **ONLINE** Online offering **PLACEMENT** Placement requirement **INTENSIVE** Intensive on-campus requirement

2027

TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
SC1101:03 Science, Technology and Truth	**Elective** Select 3 credit points of subjects from List 1 **(Breath Subjects)** *Students must select MA1000 Mathematical Foundations **PREREQ:** MA1020 or MA0020 or BR0202 or High school subjects: Mathematical Methods or Specialist Mathematics (or equivalent such as Maths B or Maths C) **OR** Second Major Subject	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 *SC1109 is compulsory in the Advanced BSc Program and should be taken instead of SC1102 if you are considering that pathway.
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** Select 3 credit points of subjects from List 1 **(Breath Subjects)** *Students must select MA1003 Mathematical Techniques **PREREQ:** MA1000 or MA1011 or MA1009 **OR** Second Major Subject

2028

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 **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*
Select 3 credit points of subjects from List 2 **(Skills Subjects)** *Students must select MA2000 Mathematics for Scientists and Engineers **PREREQ:** MA1003		Elective **OR** Second Major Subject *(Depending on chosen structure)*

2029

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 (Offered TR1, TR2, TR3) **PREREQ:** Students must have successfully completed 12 second year credit points **PLACEMENT** 100 hours **OR** SC3003:03 Science Research Internship (Offered 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 **PLACEMENT** 100 hours
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

Tip: Use this planner with the Course and Subject Handbook each enrolment period to confirm availability, prerequisites and campus/mode requirements.

Award Title	Bachelor of Science
Abbreviation	BSc
Credit Points	72
AQF Level	Level 7 - Bachelor Degree
Location	Townsville Bebegu Yumba, Cairns Nguma-bada
Division	Academy
College	College of Science and Engineering
Expected Time to Complete	3 Years
Maximum Time to Complete	9 Years
Maximum Leave of Absence	3 Years
CRICOS Code	076290A, OS