

The information provided is designed to provide helpful information on your study plan. Changes to subject information after this time may affect your study plan. Please refer to the enrolment resources for up to date information.

RECOMMENDED STUDY PLAN

2022

DEGREE	Bachelor of Advanced Science	_ MAJOR Physics (PCS)
NAME		

To assist you with subject information, we recommend you consult with your <u>CSE Course/Major Advisor</u> and refer to <u>Subject Search</u>. If you would prefer a part-time study plan, please adjust the below planner, reviewing subject prerequisites to ensure you are on track for course completion.

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: SC1101 Science Technology and Truth	Degree Core: SC1109 Modelling Natural Systems- Advanced PREREQ: MA1000 OR MA1009
	Degree Core: MA1000 Mathematical Foundations PREREQ: MA1020 OR MATHEMATICS B OR MATHS C	Degree Core: MA1003 Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009
Year 1	Major Core: PH1005 Advanced Stream Physics 1 PREREQ: Maths B OR MA1020 OR MA1000 OR MA1008.	Major Core: PH1007 Advanced Stream Physics 2 PREREQ: ((MATHS B OR EQUIVALENT OR MA1020) AND PH1005) OR (PHYSICS AND MATHS C)
	Students who have not completed High School Chemistry (or equivalent) must take Degree Core: CH1020 Preparatory Chemistry# #This subject is equivalent to chemistry from high school. OR	Elective:
	Elective - if student has completed high school level Chemistry or equivalent	

	Study Period 1 - SP1	Study Period 2 - SP2
	SC2209 Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Major Core: PH2240 Atomic and Nuclear Physics PREREQ:PH2002 AND MA1003
ar 2	<u>Degree Core List 1:</u> Advanced Skill Subjects <u>MA2000</u> Mathematics for Scientists and Engineers - REQUIRED	Elective: Recommended – 2 nd year subject from the BSc Skills list 2 (Table below)
Year	Major Core: PH2002 Classical Mechanisms and Quantum Physics 1 PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))	Elective:
	Major Core: PH2019 Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	Elective:

	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Option Core:	
	<u>SC3008</u> Profe	essional Placement
PREREQ: COMPLETED 12CP SECOND YEAR SUBJECTS		
OR		
SC3003 Science Research Internship		•
8	PREREQ: 15CP OF AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH OR SC SCIENCE LEVEL 2 SUBJECTS All available in multiple study periods	
	Major Core: PH3008 Statistical Mechanics and	multiple study perious
Year	Transport	Major Core: PH3002 Quantum Physics 2
_	PREREQ: PH2019 AND PH2002 AND MA2000	PREREQ: MA2000 AND PH2002
	Major Core: PH3019 Electromagnetic Phenomena PREREQ: MA2000 and PH2019	Elective:
	Elective:	Elective:
	Elective:	

Further Degree Options:

Degree Core List 1: Advanced Skill Subjects		
Study Period 1 – SP1	Study Period 2 – SP2	
BS5260 Modelling Ecological Dynamics	BC5203 Advanced Bioinformatics	
MA2000 Mathematics for Scientists and Engineers	SC5502 Design and Analyses in Ecological Studies	
EA5409 Mineralogy and Geophysics – Not currently offered	CH5002 Research Skills and Communication in Chemistry (Adv)	
	PH5014 Research Skills and Communication in Physics (Advanced) – Not currently offered	

BSc Skill-List 2:		
Study Period 1 – SP1	Study Period 2 – SP2	
MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003	CH2103 Analytical Chemistry – TSV only PREREQ: CH1001 OR CH1011	
MA2830 Data Visualisation	EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS	
SC3010 Sensors and Sensing for Scientists PREREQ: SC2202/SC2209	MA2210 Linear Algebra PREREQ: MA1003	

Trimester 3 (Sept-Dec)	
CP2404 Database Modelling	

ADDITIONAL COURSE RULES

A maximum of 30 credit points may be taken at Level 1.

A minimum of 18 credit points of science subjects must be taken at Level 3 or higher.

ADDITIONAL COURSE REQUIREMENTS

Some majors require attendance in intensive or mixed mode attendance subjects on either the Townsville or Cairns campus. If students must attend intensive mode classes at a campus other than the one they are enrolled at, they are responsible for their own expenses.

COURSE PROGRESSION REQUISITES

Must successfully complete 18 credit points of Level 2 science subjects before attempting any Level 5 science subject

ADDITIONAL INFORMATION

Bachelor of Advanced Science course handbook

Physics major handbook