

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	мајог <u>Physics (PCS)</u>
NAME		_мајок <u>Chemistry (СНҮ)</u>

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.

Year 1	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
	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)
	Major Core: CH1001 Chemistry: A Central Science PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY	Major Core: CH1002 Chemistry: Principles & Applications PREREQ: CH1001 OR CH1011

Note-This plan assumes you have completed high school level Chemistry and do NOT require CH1020 in your study plan. If not, you must give up the Year 2 elective in SP2 and take CH1020 in SP3 in first year.

Year 2	Study Period 1 - SP1	Study Period 2 - SP2
	<u>Degree Core List 1:</u> Advanced Skill Subjects <u>MA2000</u> Mathematics for Scientists and Engineers – REQUIRED-PHYSICS	Major Core: PH2240 Atomic and Nuclear Physics PREREQ:PH2002 AND MA1003
	Major Core: PH2002 Classical Mechanisms and Quantum Physics 1 PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))	Major Core: CH2103 Analytical Chemistry PREREQ: CH1001
	Major Core: PH2019 Introduction to	Major Core: CH2310 Syntheses and Mechanism in Organic
	Electromagnetism Optics and Early Quantum	Chemistry
	PREREQ: (EG1012 OR PH1005) AND MA1003	PREREQ: CH1001 AND CH1002
	Major Core: CH2210 Syntheses and Mechanism in	
	Inorganic Chemistry PREREQ: CH1001 AND CH1002	Elective:

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	SC2209 Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Degree Option Core: SC3008 Professional Placement PREREQ: COMPLETED 12CP SECOND YEAR SUBJECTS OR SC3003 Science Research Internship PREREQ: 15CP OF AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH OR SC SCIENCE LEVEL 2 SUBJECTS Both subjects available in multiple study periods
	Major Core: PH3008 Statistical Mechanics and Transport PREREQ: PH2019 AND PH2002 AND MA2000	Major Core: PH3002 Quantum Physics 2 PREREQ: MA2000 AND PH2002
	Major Core: PH3019 Electromagnetic Phenomena PREREQ: MA2000 and PH2019	Major Core: CH3110 Special Topics in Analytical Chemistry PREREQ: CH2103
	Major Core: CH3210 Applications of Inorganic Chemistry PREREQ: CH2210	Major Core: CH3310 Special Topics in Organic Chemistry PREREQ: CH2310

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 *required for Physics major.	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	

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
Chemistry major handbook