

Bachelor of Science MAJOR Physics

This study plan should be used as a general guide for your course. We recommend you consult with your [CSE Course/Major Advisor](#) and particularly if your intended enrolment varies from this plan.

The information in the study plan is current at the time of creation and may be subject to future change. If you would prefer a part-time study plan, please adjust the below study planner; reviewing subject prerequisites to ensure you are on track for course completion.

Useful study planning/enrolment resources:

To search for information on subjects: [Subject Search](#)

To register for your classes: [Class Registration](#)

For important dates check: [Academic Calendars](#)

Further enrolment resources: [Enrolment Resources](#)

	STUDY PERIOD 1	STUDY PERIOD 2
2023		Course CH1020:03 Preparatory Chemistry OR Select 3 credit points of any level 1, 2, 3 or 5 subjects (if completed high school level Chemistry or equivalent)
		Course MA1020:03 Preparatory Mathematics OR Select 3 credit points of any level 1, 2, 3 or 5 subjects (if completed high school level Maths Methods or equivalent)
		Second Major
		Elective OR Second Major Subject (Depending on chosen structure)

[^]Note: Students studying this major as a second major must either i. undertake this major in conjunction with the Mathematics major; or prior to commencing this course; ii. have satisfied both MA1020 and CH1020 subject material in order to undertake this major in conjunction with the Data Science major, or iii. have satisfied either MA1020 or CH1020 subject material for other major combinations. Students must select MA1000 and MA1003 as undergraduate elective subjects and MA2000 as the List 2 subject.

	STUDY PERIOD 1	STUDY PERIOD 2
2024	Course SC1101:03 Science, Technology, and Truth	Course SC1102:03 Modelling Natural Systems <i>PREREQ: MA1020 or MA0020 or Senior Mathematics or equivalent</i> OR SC1109:03 Modelling Natural Systems - Advanced <i>PREREQ: MA1000 or MA1009</i>
	Major PH1005:03 Advanced Stream Physics 1 <i>PREREQ: Maths B or MA1020 or MA0020 or MA1000 or MA1008 OR admission to 116209, 116409 or 116309. Allow concurrent for MA1000 and MA1008</i>	Major PH1007:03 Advanced Stream Physics 2 <i>PREREQ: ((Maths B or equivalent or MA1020 or MA0020) and PH1005) or (Physics and Maths C)</i>
	Second Major	Second Major
	Second Major	Second Major

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

	STUDY PERIOD 1	STUDY PERIOD 2
2025	Course SC2202:03 Quantitative Methods in Science <i>PREREQ: SC1102 or MA1020 or MA1000 or Mathematics B or equivalent</i> OR SC2209:03 Quantitative Methods in Science - Advanced <i>PREREQ: SC1109 and MA1003 plus 6 credit points of any level 1 subjects</i>	Major PH2240:03 Atomic and Nuclear Physics <i>PREREQ: PH2002 AND MA1003</i>
	Major PH2002:03 Classical Mechanics and Quantum Physics 1 <i>PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))</i>	Major PH3002:03 Quantum Physics 2 <i>PREREQ: MA2000 AND PH2002</i>
	Major PH2019:03 Introduction to Electromagnetism Optics and Early Quantum <i>PREREQ: (EG1012 OR PH1005) AND MA1003</i>	Second Major
	List 2 MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i> <i>(Students in this major must choose this subject from List 2 (Skill Subjects))</i>	Second Major

		STUDY PERIOD 1	STUDY PERIOD 2
2026	Course SC3008:03 Professional Placement <i>PREREQ: 12 credit points of second year subjects and be enrolled in their final year of study within the College of Science and Engineering</i>		
	Major PH3008:03 Statistical Mechanics and Transport <i>PREREQ: PH2019 AND PH2002 AND MA2000</i>		
	Major PH3021:03 Physics of the Earth, Solar System, and Universe <i>PREREQ: MA2000 AND PH2002 AND PH2019</i>		
	Second Major		

BREADTH SUBJECTS - LIST 1		
STUDY PERIOD 1		STUDY PERIOD 2
BM1000:03 Introductory Biochemistry and Microbiology		BS1001:03 Introduction to Biological Processes
BS1007:03 Introduction to Biodiversity		CH1002:03 Chemistry: Principles and Applications <i>PREREQ: CH1001</i>
CH1001:03 Chemistry: A Central Science		EA1110:03 Evolution of the Earth
EG1000:03 Engineering 1		MA1003:03 Mathematical Techniques <i>PREREQ: MA1000</i>
EV1005:03 Environmental Processes and Global Change		MA1580:03 Foundations of Data Science
MA1000:03 Mathematical Foundation		PH1007:03 Advanced Stream Physics 2 <i>PREREQ: PH1005 OR (High School Physics and M</i>
PH1005:03 Advanced Stream Physics 1		
TRIMESTER 1	TRIMESTER 2	TRIMESTER 3
CP1401:03 Problem Solving and Programming I CP1401:03 Problem Solving and Programming I- <i>EXTERNAL OFFERING</i>	CP1401:03 Problem Solving and Programming I- <i>EXTERNAL OFFERING</i>	CP1404:03 Programming II CP1404:03 Programming II- <i>EXTERNAL OFFERING</i>
	CP1404:03 Programming II- <i>EXTERNAL OFFERING</i>	

SKILL SUBJECTS - LIST 2

STUDY PERIOD 1	STUDY PERIOD 2
MA2000:03 Mathematics for Scientists and Engineers <i>PREREQ: MA1003</i>	CH2103:03 Analytical Chemistry <i>PREREQ: CH1001 OR CH1011</i>
MA2830 Data Visualisation	EV2502:03 Introduction to Geographic Information Systems <i>PREREQ: At least 12 credit points of level 1 subjects</i>
SC3010:03 Sensors and Sensing for Scientists <i>PREREQ: SC2202 OR (SC2209 OR SC2201 OR BZ2001)</i>	MA2210:03 Linear Algebra <i>PREREQ: MA1003</i>

TRIMESTER 3
CP2404:03 Database Modelling CP2404:03 Database Modelling- <small>*EXTERNAL OFFERING</small>

COURSE NOTES

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 INFORMATION

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