Bachelor of Advanced 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
Year 1	Course **SC1101**:03 Science Technology and Truth	Course **SC1109**:03 Modelling Natural Systems-Advanced *PREREQ: MA1000 or MA1009*
	Course **MA1000**:03 Mathematical Foundations *PREREQ: MA1020 or MA0020 or Maths B or Maths C*	Course **MA1003**:03 Mathematical Techniques *PREREQ: MA1000 or MA1011 or MA1009*
	Course **CH1020**:03 Preparatory Chemistry or **Elective** (only if already satisfied via previous study)	Major **PH1007**:03 Advanced Stream Physics 2 *PREREQ: ((Maths B or equivalent or MA1020 or MA0020) and PH1005) or (Physics and Maths C)*
	Major **PH1005**:03 Advanced Stream Physics 1 *PREREQ: Maths B or MA1020 or MA0020 or MA1000 or MA1008. Allow concurrent for MA1000 and MA1008.*	**Elective**

	STUDY PERIOD 1	STUDY PERIOD 2
Year 2	Course **SC2209**:03 Quantitative Methods in Science-Advanced *PREREQ: MA1003 and SC1109 plus 6 credit points of Level 1 subjects*	Major **PH2240**:03 Atomic and Nuclear Physics *PREREQ: PH2002 and MA1003*
	Course **MA2000**:03 Mathematics for Scientists and Engineers *PREREQ: MA1003* *Required **List 2 (Skill Subject)***	**Elective** *RECOMMENDED: BSc SKILL SUBJECT- List 2 (table below)*
	Major **PH2002:**03 Classical Mechanics and Quantum Physics 1 *PREREQ: MA1003 and PH1005 and (PH1006 or PH1007 or (EG1012 and EG1011))*	**Elective**
	Major **PH2019:**03 Introduction to Electromagnetism Optics and Early Quantum *PREREQ: (EG1012 or PH1005) and MA1003*	**Elective**

	STUDY PERIOD 1	STUDY PERIOD 2
Year 3	Course Select Availability in Study Period 1, 2, 3, 7 or 11 **SC3003**:03 Science Research Internship *PREREQ:15 credit points of AQ, BC, BS, BZ, CH, EV, EA, MA, MB, PH or SC Level 2 subjects* OR **SC3008**:03 Professional Placement *PREREQ: Students must have successfully completed 12 credit points of second year subjects.* *Enrolment is restricted to students with an approved placement*	
	Course Select an ADVANCED SKILL subject from **List 1**	
	Major **PH3008**:03 Statistical Mechanics and Transport *PREREQ: PH2019 and PH2002 and MA2000*	Major **PH3002**:03 Quantum Physics 2 *PREREQ: MA2000 and PH2002*
	Major **PH3021**:03 Physics of the Earth, Solar System, and Universe *PREREQ: MA2000 and PH2002 and PH2019*	**Elective**
	Elective	**Elective**
	Elective	

ADVANCED SKILL SUBJECTS - LIST 1	
STUDY PERIOD 1	**STUDY PERIOD 2**
BS5260:03 Modelling Ecological Dynamics	BC5203:03 Advanced Bioinformatics
MA2000:03 Mathematics for Scientists and Engineers *PREREQ: MA1003*	CH5002:03 Research Skills and Communication in Chemistry (Advanced) *PREREQ: Satisfactory completion of 9 credit points of Level 2, 3 or 5 CH subjects*
^EA5409:03 Mineralogy and Geophysics	SC5502:03 Design and Analyses in Ecological Studies
^PH5014:03 Research Skills and Communication in Physics (Advanced)	

^Note: EA5409 and PH5014 are not offered in 2023

BSc SKILL SUBJECTS - LIST 2	
STUDY PERIOD 1	**STUDY PERIOD 2**
MA2000:03 Mathematics for Scientists and Engineers *PREREQ: MA1003*	CH2103:03 Analytical Chemistry *PREREQ: CH1001 OR CH1011*
MA2830 Data Visualisation	EV2502:03 Introduction to Geographic Information Systems *PREREQ: At least 12 credit points of Level 1 subjects*
SC3010:03 Sensors and Sensing for Scientists *PREREQ: BZ2001 or SC2202 or SC2209 or SC2201*	MA2210:03 Linear Algebra *PREREQ: MA1003*

TRIMESTER 3
CP2404:03 Database Modelling

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

2023 Bachelor of Advanced Science Handbook
Physics Major