

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

Mid-Year Entry 2021

DEGREE _	Bachelor of Science	MAJOR	Physics	(PCS)	- TSV onl	y after 1 st S	Semester	
					(a a = a a)			
NAME		MINOR	<u>Mathem</u>	atics	(MHM)			

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor 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.

The College of Science and Engineering has implemented screening testing in this degree so that students who are suitably qualified can replace core preparatory subjects with elective subjects. The screening tests must be completed even if Senior Chemistry or Maths Methods (or equivalent) have been studied at secondary school.

		Study Period 2 - SP2
Year 1	MID-YEAR ENTRY	## This core subject may be replaced by an elective if you pass the chemistry screening test (held during orientation week). The screening test needs to be completed even if Senior Chemistry (or equivalent) has been studied at secondary school. Degree Core: MA1020 Preparatory Math* * This core subject may be replaced by an elective if you pass the maths screening test (held during orientation week). The screening test needs to be completed even if Maths Methods (or equivalent) has been studied at secondary school. Degree Opt Core Breadth-List 1: Elective:

Year 2	Study Period 1 - SP1	Study Period 2 - SP2	
	Degree Core: SC1101 Science Technology and Truth	Degree Opt Core SC1102 Modelling Natural Systems PREREQ: MA1020 OR SC1109 Modelling Natural Systems-Advanced^ PREREQ: MA1000 OR MA1009	
	Degree Opt Core <u>Breadth-List 1</u> :	Major Core: PH1007 Advanced Stream Physics 2 PREREQ: ((MATHS B OR EQUIVALENT OR MA1020) AND PH1005) OR (PHYSICS AND MATHS C)	
	Major Core: PH1005 Advanced Stream Physics 1 PREREQ: Maths B OR MA1020 OR MA1000 OR MA1008.	Minor Core: MA1003 Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009	
	Minor Core: MA1000 Mathematical Foundations PREREQ: MA1020 OR MATHEMATICS B OR MATHS C	Elective:	

[^] 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 - SP1	Study Period 2 - SP2
Year 3	Degree Core: SC2202 Quantitative Methods in Science PREREQ: SC1102 OR MA1020 OR MATH B OR EQUIVALENT OR SC2209 Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS	Degree Opt Core <u>Skill-List 2</u> :
	Major Core: PH2002 Classical Mechanisms and Quantum Physics 1 PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))	Major Core: PH2240 Atomic and Nuclear Physics PREREQ:PH2002 AND MA1003
	Major Core: PH2019 Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003	Major Core: PH3002 Quantum Physics 2 PREREQ: MA2000 AND PH2002
	Minor Core: MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003	Minor Core: MA2210 Linear Algebra PREREQ: MA1003

	Study Period 1 - SP1	Study Period 2 - SP2
Year 4	Degree Core: <u>SC3008</u> Professional Placement - available any SP	
	Degree Core: SC3010 Sensors and Sensing for Scientists PREREQ: SC2202/SC2209	MID-YEAR
	Major Core: PH3008 Statistical Mechanics and Transport PREREQ: PH2019 AND PH2002 AND MA2000	COMPLETION
	Major Core: PH3019 Electromagnetic Phenomena PREREQ: MA2000 and PH2019	

Further Degree Options:

Breadth-List 1:			
Study Period 1 – SP1	Study Period 2 – SP2		
<u>CP1401</u> Problem S	olving and Programming I		
	<u>OR</u>		
<u>CP1404</u>	Programming II		
	CP1200 OR EG1002 OR CP2200 OR SC1201		
both subjects ava	illable in SP1 and SP2 **		
BM1000 Introductory Biochemistry and Microbiology – TSV only PREREQ: CH1020 OR SENIOR CHEMISTRY	CH1002 Chemistry: Principles & Applications – TSV only PREREQ: CH1001 OR CH1011		
CH1001 Chemistry: A Central Science PREREQ: CH1020 OR EG1010 OR SENIOR CHEMISTRY	BS1001 Introduction to Biological Processes		
BS1007 Introduction to Biodiversity – <i>TSV only</i> OR BZ1006 Diversity of Life – <i>CNS only</i>	EA1110 Evolution of the Earth		
EG1000 Engineering 1			
EV1005 Environmental Processes & Global Change			

^{**}CP1404 has been added to the structure from 2019. We would prefer if you would take CP1404.

Skill-List 2:			
Study Period 1 – SP1	Study Period 2 – SP2		
<u>CP2404</u> Database Modelling	EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS		
	CH2103 Analytical Chemistry – TSV only PREREQ: CH1001 OR CH1011		