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 2021

DEGREE Bachelor of Advanced Science MAJOR Physics (PCS) – TSV only after 1st Semester

NAME _____ MINOR Mathematics (MTM)

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor and refer to Subject Search. 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
Year 1	**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)**
		Degree Core: CH1020 Preparatory Chemistry # *# This subject is equivalent to chemistry from high school. This core subject may be replaced by an elective if you pass the chemistry competency test.*

SP3 (Jan-Feb)
Elective/2nd Minor: *MA1020 Preparatory Math* - Recommended* **This subject is equivalent to QLD-Maths Methods from high school.*

	Study Period 1 - SP1	Study Period 2 - SP2
Year 2	**Degree Core:** 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**
	Major Core: PH2002 Classical Mechanisms and Quantum Physics 1 **PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011))**	**Minor Core:** MA2211 Discrete Mathematics **PREREQ: MATHS B**
	Major Core: PH2019 Introduction to Electromagnetism Optics and Early Quantum **PREREQ: (EG1012 OR PH1005) AND MA1003**	**Minor Core List 1:**
	Minor Core: MA2000 Mathematics for Scientists and Engineers **PREREQ: MA1003**	**Elective/2nd Minor:**

	Study Period 1 - SP1	Study Period 2 - SP2
Year 3	**Degree Core:** SC3008 Professional Placement - *available any SP* **OR** SC3003 Science Research Internship - *available any SP*	
	Major Core: PH3008 Statistical Mechanics and Transport **PREREQ: PH2019 AND PH2002 AND MA2000**	**Degree Core List 1:**
	Major Core: PH3019 Electromagnetic Phenomena **PREREQ: MA2000 and PH2019**	**Major Core:** PH3002 Quantum Physics 2 **PREREQ: MA2000 AND PH2002**
	Elective/2nd Minor:	**Minor Core List 1:**
	Elective/2nd Minor:	

Further Degree Options:

Degree Core List 1: Advanced Skill Subjects	
Study Period 1 – SP1	**Study Period 2 – SP2**
	BC5203 Advanced Bioinformatics
	BS5260 Modelling Ecological Dynamics
	CH5002 Research Skills and Communication in Chemistry (Adv)
EA5409 Mineralogy and Geophysics – Not currently offered	*PH5014 Research Skills and Communication in Physics (Advanced) – Not currently offered*

SP3 (Jan-Feb)
SC5502 Design and Analyses in Ecological Studies – *This subject will move to SP2 in 2022*

Minor Core List 1:	
Study Period 1 – SP1	**Study Period 2 – SP2**
MA3211 Mathematical Modelling and Differential Equations **PREREQ: MA2000 AND (MA2210 OR MA2201)**	MA2210 Linear Algebra **PREREQ: MA1003**
	MA3210 Probability and Stochastic Processes **PREREQ: MA2000 AND (MA2210 OR MA2201)**
	MA3212 Optimisation and Operations Research **PREREQ: MA2000 AND (MA2210 OR MA2201)**