

RECOMMENDED STUDY PLAN

2021

DEGREE Bachelor of 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.

Year 1	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: <u>SC1101</u> Science Technology and Truth	Degree Opt Core <u>SC1102</u> Modelling Natural Systems PREREQ: MA1020 OR <u>SC1109</u> Modelling Natural Systems-Advanced [^] PREREQ: MA1000 OR MA1009
	Minor Core: <u>MA1000</u> Mathematical Foundations PREREQ: MA1020 OR MATHEMATICS B OR MATHS C	Minor Core: <u>MA1003</u> Mathematical Techniques PREREQ: MA1000 OR MA1011 OR MA1009
	Major Core: <u>PH1005</u> Advanced Stream Physics 1 PREREQ: Maths B OR MA1020 OR MA1000 OR MA1008.	Major Core: <u>PH1007</u> Advanced Stream Physics 2 PREREQ: ((MATHS B OR EQUIVALENT OR MA1020) AND PH1005) OR (PHYSICS AND MATHS C)
		Degree Core: <u>CH1020</u> 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)		
Degree Core: <u>MA1020</u> Preparatory Math* *This subject is equivalent to QLD-Maths Methods from high school. This core subject may be replaced by an elective if you pass the math competency test.		

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

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

Year 3	Study Period 1 - SP1	Study Period 2 - SP2
	Degree Core: <u>SC3008</u> Professional Placement - <i>available any SP</i>	
	Degree Core: <u>SC3010</u> Sensors and Sensing for Scientists PREREQ: SC2202/SC2209	Major Core: <u>PH3002</u> Quantum Physics 2 PREREQ: MA2000 AND PH2002
	Major Core: <u>PH3008</u> Statistical Mechanics and Transport PREREQ: PH2019 AND PH2002 AND MA2000	Elective/2nd Minor:
	Major Core: <u>PH3019</u> Electromagnetic Phenomena PREREQ: MA2000 and PH2019	Elective/2nd Minor:
	Elective/2nd Minor:	

Further Degree Options:

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