

RECOMMENDED STUDY PLAN

2017-2018

NAME _____

DEGREE PROGRAM BSc

MAJOR Physics (PCS)- TSV only after 1st Semester

SP1	SP2
Degree Core: SC1101	Degree Opt Core SC1102* OR SC1109-ADV BSc <i>*SC1102 requires Maths B from high school or MA1020.</i>
Major Core: PH1005-Adv Physics 1	Major Core: PH1007-Ad Physics 2
Degree Opt Core Breadth-List 6: MA1000 OR MA1009 Required for this Major	Degree Opt Core Breadth-List 6: MA1003- Required for this Major
Elective/Minor:	Elective/Minor:

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

SP1	SP2
Degree Opt Core Skill: SC2202 OR SC2209-ADV BSc <i>(or BZ2001 for SC2202 before 2018)+</i>	Degree Opt Core Skill-List 7: MA2000# Required
Major Core: PH2002-Classical Mechanics & Quantum Physics 1	Major Core: PH2240-Atomic & Nuclear Physics
Major Core: PH2019-Intro to Electromagnetism Optics & Early Quantum	Elective/Minor:
Elective/Minor:	Elective/Minor:

**SC2202 was not core to this major until 2017 so until 2018, a MA level 2 subject may be used as advanced standing on this line*

#MA2000 is a prerequisite subject for all level 3 PH subjects within the major.

SP1	SP2
Degree Core: SC3008-Professional Placement (can be done in any SP)	
Degree Core: SC3010-Wicked Problems in Science-SP TBA. <i>SC3010 will not be available until 2019, you may replace this subject with any level 3 Science subject until 2019.</i>	
Major Core: PH3008-Statistical Mechanics & Transport#	Major Core: PH3002-Quantum Physics 2 #
Major Core: PH3019-Electromagnetic Phenomena#	Elective/Minor:
Elective/Minor:	Elective/Minor:

List of Breadth Subjects Available to this Discipline: <u>List 6</u>	
SP1	SP2
CP1404-Programming 1-available in SP1 and SP2	
BM1000-Introductory Biochemistry and Microbiology	BS1001-Intro Biol Processes-TSV OR BZ1005-Intro Ecology-CNS
BS1007-Intro to Biodiversity-TSV OR BZ1006-Diversity of Life-CNS	CH1002-Chemistry: Principles & Applications-TSV only
CH1011- Chemistry-CNS OR CH1001-TSV	EA1110-Evolution of the Earth
EV1005-Environ Processes & Global Change	MA1003-Mathematical Techniques
MA1000-Mathematical Foundations	

List BSc Opt Skill Subjects Available to this Discipline: <u>List 7</u>	
SP1	SP2
PH2222:03 Sensors and Sensing for Scientists-SP 6	
CP2404-Database Modelling	EV2502-GIS
	CH2103-Analytical Chemistry
	MA2201-Numerical Mathematics