

RECOMMENDED STUDY PLAN

2017-2018

NAME _____

DEGREE PROGRAM BSc Mid-Year Entry MAJOR Physics (PCS) - TSV only after 1st sem

Level 1

SP7-June/July

MA1020-Can be taken before the start of the semester in block mode if you are missing Math B or equivalent from high school

SP2

| |
|--|
| Degree Opt Core SC1102* OR SC1109-ADV BSc <i>*SC1102 requires Maths B from high school or MA1020.</i> |
| Degree Opt Core Breadth-List 6: MA1000-LTD |
| Elective/Minor: CH1020-TSV if needed from the Preparatory Science 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.

Level 1 and 2:

| SP3 | SP1 | SP2 |
|--|--|--------------------------------------|
| Degree Opt Core Breadth-List 6: MA1003-Required for this Major | Degree Core: SC1101- Science: Nature, Knowledge & Understanding | Major Core: PH1007-Ad Physics |
| | Degree Opt Core Skill-List 7: MA2000# Required | Elective/Minor: |
| | Major Core: PH1005-Adv Physics 1 | Elective/Minor: |
| | | Elective/Minor: |

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

Level 2 and 3:

| SP1 | SP2 |
|--|---|
| Degree Opt Core Skill: SC2202 OR SC2209-ADV BSc <i>(or BZ2001 for SC2202 before 2018)</i> | Degree Core: SC3008-Professional Placement <i>(can be done in any SP)</i> |
| Major Core: PH2002-Classical Mechanics & Quantum Physics 1 | Major Core: PH2240-Atomic & Nuclear Physics |
| Major Core: PH2019-Intro to Electromagnetism Optics & Early Quantum | Major Core: PH3002-Quantum Physics 2 # |
| Elective/Minor: | Elective/Minor: |

Level 3:**SP1**

| |
|--|
| Degree Core: SC3010-Sensors and Sensing for Scientists-SP TBA** |
| Major Core: PH3008-Statistical Mechanics & Transport# |
| Major Core: PH3019-Electromagnetic Phenomena# |
| Elective/Minor: |

**SC3010 is not available until 2019, you may replace this subject with any level 3 Science subject until 2019.

| List of Breadth Subjects Available to this Discipline: List 6 | |
|--|---|
| 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: List 7 | |
|---|------------------------------|
| SP1 | SP2 |
| PH2222:03 Sensors and Sensing for Scientists-SP 6 | |
| CP2404-Database Modelling | EV2502-GIS |
| | CH2103-Analytical Chemistry |
| | MA2201-Numerical Mathematics |