## RECOMMENDED STUDY PLAN 2017

**NAME** _____

**DEGREE PROGRAM** ADV BSc-BAD **MAJOR** Physics - TSV after 1st Semester (PCS)

**Level 1**

| SP1 | SP2 |
|---|---|
| **ADV BSc Core:** SC1101 | **ADV BSc Core:** SC1109 |
| **ADV BSc Core:** MA1000 *(or MA1008 + MA1009)* | **ADV BSc Core:** MA1003* |
| **Major Core:** PH1005-Adv Physics 1 | **Major Core:** PH1007-Adv Physics 2 |
| **Elective/Minor:** | **Elective/Minor:** |

Notes: *MA1003 is required for SC2209 and will be offered in SP3-Jan/Feb each year. So if you are taking MA1008 and MA1009 in first year, then you need to plan to take MA1003 in SP3 block mode at the beginning of your second year.

**Level 2:**

| SP1 | SP2 |
|---|---|
| **ADV BSc Core Skill:** SC2209 | **ADV BSc Opt Skill Core-List 10:** MA2000# |
| **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:** |

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

**Level 3:**

| SP1 | SP2 |
|---|---|
| **ADV BSc Quantitative Subject-List 12:** | |
| **ADV BSc Optional Core:** SC3003-Research Internship OR SC3008-Professional Placement | |
| **Major Core:** PH3008-Statistical Mechanics & Transport # | **Major Core:** PH3002-Quantum Physics 2 # |
| **Major Core:** PH3019-Electromagnetic Phenomena # | **Elective/Minor:** |
| **Elective/Minor:** | **Elective/Minor:** |

| List BSc Opt Skill Subjects Available to this Discipline: List 10 | |
|---|---|
| **SP1** | **SP2** |
| PH2222:03 Sensors and Sensing for Scientists-SP TBA | |
| CP2404-Database Modelling | EV2502-GIS |
| MA2000-Mathematics for Scientists & | MA2201-Numerical Mathematics |
| | CH2103-Analytical Chemistry |

| List of ADV BSc Quantitative Subjects-List 12<br><br>(Check closer to enrolment for SP availabilities) |
|---|
| BS5260-Modelling Ecological Dynamics |
| MA5405-Data Mining |
| BC5203-Introduction to Bioinformatics |
| EA5409-Minerology and Geophysics |
| PH5014-Research Skills and Communication in Physics-Advanced |
| CH5002-Research Skills and Communication in Chemistry |
| SC5502-Design & Analysis in Ecological Studies |