

Sample Study Plan for <b>Physics as the Primary Major</b>							
Year 1		Year 2		Year 3		Year 4	
Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2
Pair 1: Integrated Course in Social Sciences Pair 2: Integrated Course in Humanities	Pair 1: Integrated Course in Humanities Pair 2: Integrated Course in Social Sciences	Scientific Inquiry II	Artificial Intelligence	Communities and Engagement	Interdisciplinary II	Major 12	Major 14
Pair 1: Scientific Inquiry I Pair 2: Integrated Course in Asian Studies	Pair 1: Integrated Course in Asian Studies Pair 2: Scientific Inquiry I	Writing	PC2130 Quantum Mechanics I	Interdisciplinary I	Major 10	Major 13	Major 15
Pair A: Data Literacy Pair B: Design Thinking	Pair A: Design Thinking Pair B: Data Literacy	Digital Literacy	PC2193 Experimental Physics and Data Analysis	PC2135 Thermodynamics and Statistical Mechanics	Major 11	UE 7	UE 10
PC1101 Frontiers of Physics	PC2174A Mathematical Methods in Physics I	PC2031 Electricity & Magnetism I	PC3274A Mathematical Methods in Physics II	PC3193 Experimental Physics II	UE 5	UE 8	UE 11
Major B Gateway Course (UE 1)	Major C Gateway Course (UE 2)	PC2032 Classical Mechanics I	UE 3	UE 4	UE 6	UE 9	UE 12

**Note:** Students have to complete all CHS Common Curriculum courses in their first two years except for the following 3 courses:

- Communities and Engagement course – can be taken from Years 2 to 4
- Two Interdisciplinary courses – can be taken in Years 3 and 4

#### Graduation Requirements

Students must take at least one of the following courses in the UE space to fulfil the graduation requirements. It is recommended to take UPIP during a special term.

- PC3288 (or its variants) Advanced UROPS in Physics I
- PC4288 (or its variants) Honours Project in Physics (8 Units)
- PC UPIP course (minimum 4 Units, advised to be taken during a special term)
- NOC Internship Course

#### Recommended Elective Courses

- PC3130 Quantum Mechanics II
- PC3231 Electricity & Magnetism II
- PC3233 Atomic and Molecular Physics I
- PC3235 Solid State Physics I
- PC3236 Computational Methods in Physics
- PC3261 Classical Mechanics II
- PC4230 Quantum Mechanics III
- PC4274A Mathematical Methods in Physics III