

Primary Physics Major Study Plan for students intending to do postgraduate study							
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	PC4288 Honours Projects in Physics (8 units)*	
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	PC2135 Thermodynamics and Statistical Mechanics	Interdisciplinary I	Major 14	UE 3	UE 7
Pair A: Data Literacy Pair B: Design Thinking	Pair A: Design Thinking Pair B: Data Literacy	Digital Literacy	PC2193 Experimental Physics and Data Analysis	PC3130 Quantum Mechanics II	Major 15	UE 4	UE 8
PC1101 Frontiers of Physics	PC2031 Electricity & Magnetism I	PC2130 Quantum Mechanics I	PC3274A Mathematical Methods in Physics II	PC3231 Electricity & Magnetism II	UE 1	UE 5	UE 9
PC2174A Mathematical Methods in Physics I	PC2032 Classical Mechanics I	PC3261 Classical Mechanics II	Major 10	PC4241 Statistical Mechanics	UE 2	UE 6	UE 10

**Note:** Students are strongly encouraged 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.

- PC4288 Honours Projects in Physics (8 units, count as two courses)
- PC coded Undergraduate Professional Internship Programme (UPIP, minimum 4 units, advised to be taken during a special term)

### Recommended Elective Courses

Choose three courses (12 units) from the following list:

- PC3233 Atomic and Molecular Physics I
- PC3235 Solid State Physics I
- PC3236 Computational Methods in Physics
- PC3288 Advanced UROPS in Physics
- PC4230 Quantum Mechanics III
- PC4274A Mathematical Methods in Physics III