Primary Physics Major Study Plan for students intending to do postgraduate study in Astrophysics or High Energy Physics							
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/PC4288A 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	**PC3246 Astrophysics I**	**PC4230 Quantum Mechanics III**	**PC4245 Particle Physics**
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**	**PC3288 Advanced UROPS in Physics**	**PC4241 Statistical Mechanics**	UE 3
PC1101 Frontiers of Physics	**PC2031 Electricity & Magnetism I**	**PC2130 Quantum Mechanics I**	**PC3274A Mathematical Methods in Physics II**	**PC3231 Electricity & Magnetism II**	**PC4274A Mathematical Methods in Physics III**	**PC4248 General Relativity**	UE 4
PC2174A Mathematical Methods in Physics I	**PC2032 Classical Mechanics I**	**PC3261 Classical Mechanics II**	UE 1	**PC3232 Nuclear and Particle Physics**	UE 2	**PC4249 Astrophysics II**	UE 5

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)

List of Elective Courses

The following mathematical methods courses are also recommended.

- PC5204B Special Topics in Physics: Analytic Approximations
- PC5274 Advanced Mathematical Methods in Physics