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	PC4288Q Honours Projects in Quantum Technologies (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	PC4228 Device Physics for Quantum Technology	PC3247 Modern Optics	SP 2
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	SP 1	PC4241 Statistical Mechanics	UE 5
PC1101 Frontiers of Physics	PC2031 Electricity & Magnetism I	PC2130 Quantum Mechanics I	PC3236 Computational Methods in Physics	PC3231 Electricity & Magnetism II	UE 1	UE 3	UE 6
PC2174A Mathematical Methods in Physics I	PC2032 Classical Mechanics I	PC3261 Classical Mechanics II	PC3274A Mathematical Methods in Physics II	PC3235 Solid State Physics I	UE 2	UE 4	UE 7

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) or PC4288Q Honours Projects in Quantum Technologies [^]
- PC coded Undergraduate Professional Internship Programme (UPIP, minimum 4 units, advised to be taken during a special term)

List of Courses for Specialization (choose five courses)

- PC3130 Quantum Mechanics II
- PC3233 Atomic and Molecular Physics I
- PC3288Q Advanced UROPS in Quantum Technologies I, on a related subject [^]
- PC4230 Quantum Mechanics III
- PC4243 Atomic and Molecular Physics II
- PC4246 Quantum Optics
- PC4228 Device physics for Quantum Technology

^Projects are approved by default if proposed by:

- any of the CQT PIs (<u>https://www.quantumlah.org/people/staff.php?cat=research</u>; type "principal" in the search window)
- Gong Jiangbin (<u>https://www.physics.nus.edu.sg/faculty/gong-jiangbin/</u>)
- Mankei Tsang (https://www.physics.nus.edu.sg/faculty/tsang-mankei/)
- Charles Lim (<u>https://www.quantumlah.org/people/profile.php?id=353</u>)

Suggestions for elective courses:

- PC3193 Experimental physics II
- PC3243 Photonics
- PC4236 Computational Condensed Matter Physics (towards graduate studies)
- PC4240 Solid State Physics II (towards graduate studies)
- PC4241 Statistical Mechanics (towards graduate studies)
- PC4274A Mathematical Methods in Physics III (towards graduate studies)