Last Update:4/10/2023

Curriculum Structure for BSc in Physics

Semester \ Topic	Mechanics	Quantum Mechanics	Electricity & Magnetism	Thermodynamics & Statistical Physics	Experimental Physics	Mathematical methods	Computational Physics	Languages	Others
1A	PHY1101 (3CU)[%] Introductory Classical Mechanics					Select one from below (3CU)*[@] MA1200 Calculus and Basic Linear Algebra I or MA1300 Enhanced Calculus and Linear Algebra I	CS1302 Introduction to Computer Programming*	Select one from below (3CU)[&]: GE1401 University English or LC0200A English for Academic Purposes 1	CSCI1001 (0 CU)[%] Employability for Scientists GE course (3CU)
1B	PHY1203 (3CU) General Physics III		PHY1202 (3CU) General Physics II			Select one from below (3CU)*[@] MA1201 Calculus and Basic Linear Algebra II or MA1301 Enhanced Calculus and Linear Algebra II		Select one from below (3 CU)[&] GE2401 English for Science or LC0200B English for Academic Purposes 2	Select one from below (3CU)[%]: CHEM1101 Introduction to Chemistry or CHEM1200 Discovery in Biology or CHEM1300 Principles of General Chemistry or MA1501 Coordinate Geometry or MA1502 Algebra CSCI1002 (0CU)[%] Career Lab for Scientists
2A					PHY2212 (3 CU) Measurement and Instrumentation	MA2158 (3CU) Linear Algebra and Calculus			GE1501 (3 CU)[&] Chinese Civilisation - History and Philosophy GE course (3 CU)
2B		PHY3202 (3 CU) Modern Physics	PHY3204 (3 CU) Waves and Optics PHY2191 (3 CU) Electricity and Magnetism	PHY3290 (3CU) Thermodynamics	PHY2213 (3 CU) Advanced Measurement and Instrumentation				GE course (3CU)
3A		PHY3251 (3 CU) Quantum Mechanics	PHY3205 (3 CU) Electrodynamics		PHY3231 (3 CU) Advanced Instrumentation Lab				Free electives (6CU) GE course (3CU)
3B		PHY3272 (3 CU) Introduction to Solid State Physics					PHY3115 (3 CU) Introduction to Computational Physics		Free electives (6CU)
4A	Select one from below (3 CU): PHY4216 Project or PHY4217 Dissertation Major electives (12 CU)								
4B	Select one from below: PHY4217 Dissertation (3CU) or CSCI4003 Co-operative Education Placement Project for Science Students (6CU)[#] Major electives (6 or 9 CU[^])								Free electives (6CU)

[%] College Requirement * College-specified Course [&] University Requirement

[@] Students with HKDSE Mathematics Extended Part Module 2 (Levels 4 –5) are required to take MA1300 and MA1301 instead of MA1200 and MA1201.

[#] Students who take CSCI4003 need to continue their studies in the following Summer Term and Semester A. They are also required to take CSCI4001 simultaneously.

[^] Students need to take 9CUs for major electives if they select PHY4216 in Sem 4A.