

Curriculum Information Record for Common Requirements

Department of Physics

Effective from Semester A 2022/23

For Students Admitted from Semester A 2021/22 and thereafter

The information provided on this form is the official record of the common requirements, such as Gateway Education requirement, College/School requirement, and University Language requirements. It will be used for City University's database, various City University publications (including websites) and documentation for students and others as required.

In specifying the curriculum for the common requirements, "catalogue term" is used to determine the set of curriculum requirements that a student is following. By mapping the student record and the version of curriculum rules applicable, the graduation requirements of individual students will be evaluated accordingly. The catalogue term of the common requirements that students will follow will be the same as their admission term (BUS/04/A5R).

Prepared / Last Updated by

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City University of Hong Kong
Curriculum Information Record for Common Requirements
Department of Physics
Effective from Semester A 2022/2023
For Students Admitted from Semester A 2021/2022 and thereafter

Part I Gateway Education Requirement

(The catalogue term of the Gateway Education requirement that students will follow will be the same as their admission term.)

Curriculum Catalogue Term	Semester A 2021/22 onwards		
	Normative 4-year Degree	Advanced Standing I (Note 1)	Advanced Standing II (Senior-year Entry) (Note 2)
<u>University requirements</u>			
English			
• GE1401 University English	3 credit units	3 credit units	Not a compulsory requirement
• Discipline-specific English	3 credit units	3 credit units	3 credit units
GE1501 Chinese Civilisation – History and Philosophy	3 credit units	3 credit units	Not a compulsory requirement
<u>Distributional requirements</u>	12 credit units	6 credit units	3 credit units
Area 1: Arts and Humanities	<i>(At least one course from each of the three areas)</i>	<i>(From two different areas)</i>	
Area 2: Study of Societies, Social and Business Organisations			
Area 3: Science and Technology			
<u>College/School-specified courses</u> ^	9 credit units	6 credit units	6 credit units
Total	30 credit units	21 credit units	12 credit units

^ **College/School-specified courses for fulfilling the Gateway Education requirement**

Course Code	Course Title	Level	Credit Units	Remarks
Normative 4-year Degree				
MA1200/ MA1300	Calculus and Basic Linear Algebra I/ Enhanced Calculus and Linear Algebra I	B1	3	
MA1201/ MA1301	Calculus and Basic Linear Algebra II/ Enhanced Calculus and Linear Algebra II	B1	3	
CS1302*	Introduction to Computer Programming	B1	3	

Note 1: For students with recognised Advanced Level Examination or equivalent qualifications.

Note 2: For Associate Degree/Higher Diploma graduates admitted to the senior year.

Advanced Standing I				
CS1302*	Introduction to Computer Programming	B1	3	Students who have attained equivalent qualifications may apply for exemption. They are required to complete any course of 3 credits (NOT within the major requirements including core courses and electives) to replace the exempted credits.
MA1201/ MA1301	Calculus and Basic Linear Algebra II/ Enhanced Calculus and Linear Algebra II	B1	3	Students may be considered for exemption subject to passing the placement test or recommendation of MA department. They are required to complete any course of 3 credits (NOT within the major requirements, including core courses and electives) to replace the exempted credits.
Advanced Standing II (Senior-year Entry)				
CS1302*	Introduction to Computer Programming	B1	3	Students who have attained equivalent qualifications may apply for exemption. They are required to complete any course of 3 credits (NOT within the major requirements including core courses and electives) to replace the exempted credits.
Any courses not within the Major Requirements (including core courses and electives)		B1/2/3/4	3	For students who failed the MA placement test and are required to complete the pre-requisite courses for their MA core course#, they are advised to take <i>MA1200 Calculus and Basic Linear Algebra I and/or MA1201 Calculus and Basic Linear Algebra II</i> to fulfil this requirement.

			#Please refer to the Curriculum Information Record (CIR) for your major and the Course Syllabus of the relevant MA courses for details.
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* All BScPHY major students are required to take CS1302 Introduction to Computer Programming to fulfill the Gateway Education requirement.

GREAT Students

Course Code	Course Title	Level	Credit Units	Remarks
Normative 4-year Degree				
MA1200/ MA1300	Calculus and Basic Linear Algebra I/ Enhanced Calculus and Linear Algebra I	B1	3	
MA1201/ MA1301	Calculus and Basic Linear Algebra II/ Enhanced Calculus and Linear Algebra II	B1	3	
CS1302	Introduction to Computer Programming	B1	3	

Part II College/School Requirement, if any*(The catalogue term of the College/School requirement that students will follow will be the same as their admission term.)*

Course Code	Course Title	Level	Credit Units	Remarks
Normative 4-year Degree (6 credit units)				
Choose two from the following four science courses subject areas:				
<i>Biology</i>				
CHEM1200	Discovery in Biology	B1	3	
<i>Chemistry</i>				
CHEM1101/ CHEM1300	Introduction to Chemistry/ Principles of General Chemistry	B1	3/ 3	
<i>Mathematics</i>				
MA1501/ MA1502	Coordinate Geometry/ Algebra	B1	3/ 3	
<i>Physics</i>				
PHY1101 [#]	Introductory Classical Mechanics	B1	3	
Compulsory attendance for the following two soft skills courses:				
<i>Soft Skills</i>				
CSCI1001	Employability for Scientists	B1	0	
CSCI1002	Career Lab for Scientists	B1	0	
Advanced Standing I (0 credit unit)				
College Requirements waived				
Advanced Standing II (Senior-year Entry) (0 credit unit)				
College Requirements waived				

[#] All BScPHY major students are required to take PHY1101 Introductory Classical Mechanics to fulfill the College Requirement.

GREAT Students

Course Code	Course Title	Level	Credit Units	Remarks
Research Methodology				
CSCI2002	Workshop on Research Methodology	B2	1	
College Requirements I (6-8 credit units)				
Choose two from the following seven courses:				
<i>Biology</i>				
CHEM3081	Chemical Biology of DNA and RNA	B3	3	
<i>Chemistry</i>				
CHEM2006	Principles of Inorganic Chemistry	B2	4	
CHEM2007	Principles of Organic Chemistry	B2	4	
<i>Mathematics</i>				
MA2172	Applied Statistics for Sciences and Engineering	B2	3	
MA2509	Discrete Mathematics	B2	3	
<i>Physics</i>				
PHY1101	Introductory Classical Mechanics	B1	3	
PHY1202	General Physics II	B1	3	
College Requirements II (6-8 credit units)				
Choose two from the following six courses:				
<i>Biology</i>				
CHEM3017	Molecular Biology	B3	4	
<i>Chemistry</i>				
CHEM2004	Principles of Analytical Chemistry	B2	4	
CHEM2008	Principles of Physical Chemistry	B2	4	

<i>Mathematics</i>				
MA1501	Coordinate Geometry	B1	3	
<i>Physics</i>				
PHY3202	Modern Physics	B3	3	
PHY3204	Wave and Optics	B3	3	

Part III English Language Requirement

Normative 4-year degree students and Advanced Standing I students who passed the 6 credit units of specified GE English courses, and Advanced Standing II students who passed the 3 credit units of discipline-specific GE English course are recognized as fulfilling the University's English Language Requirement.

Students scoring below Level 4 in HKDSE English Language or Grade D in HKALE AS-level Use of English or students who do not possess an equivalent qualification are required to complete two 3-credit unit courses, EL0200A English for Academic Purposes 1 and EL0200B English for Academic Purposes 2, prior to taking the GE English courses. Students who demonstrate that they have achieved a grade B or above in their overall course results for EL0200A will achieve 3 credits and also be considered to have satisfied the pre-requisite for entry to the GE English courses without needing to take EL0200B. The credit units of EL0200A and EL0200B will not be counted towards the minimum credit units required for graduation and will not be included in the calculation of the cumulative grade point average (CGPA). However, they will be counted towards the maximum credit units permitted.

Part IV Chinese Language Requirement

Students scoring below Level 4 in HKDSE Chinese Language, or below Grade D in HKALE AS-level Chinese Language and Culture will be required to complete a 3-credit unit course CHIN1001 University Chinese I. The 3 credit units will not be counted towards the minimum credit units required for graduation and will not be included in the calculation of the cumulative grade point average (CGPA). However, they will be counted towards the maximum credit units permitted.

In addition to the above requirement, Colleges/Schools also have the discretion to specify other Chinese language courses for their students, including students who do not possess the above qualifications (Senate/70/MM27-28 refers). Please indicate if there are such requirements.