

2013-2014 (1st Year)

Semester A		Units	Semester B		Units	Total
CS1102 / CS1302	Introduction to Computer Studies / Introduction to Computer Programming	3	GE2410	English for Engineering – GE (3)	3	
MA1200 / MA1300	Calculus and Basic Linear Algebra I / Enhanced Calculus and Linear Algebra I	3	MA1201 / MA1301	Calculus and Basic Linear Algebra II / Enhanced Calculus and Linear Algebra II	3	
AP1201 / BCH1100 / BCH1200	General Physics I / Chemistry / Discovery in Biology	3	AP1201 / BCH1100 / BCH1200	General Physics I / Chemistry / Discovery in Biology	3	
GE1401	University English – GE (1)	3	GE-4	Gateway Education – GE (4)	3	
GE-2	Gateway Education – GE (2)	3	GE-5	Gateway Education – GE (5)	3	
		15			15	30

2014-2015 (2nd Year)

Semester A		Units	Semester B		Units	Total
CS2611	Seminars on Contemporary Technology I	0	CS2611	Seminars on Contemporary Technology I	1	
CS2115	Computer Organization	3	CS2312	Problem Solving and Programming	3	
CS2204	Fundamentals of Internet Applications Development	3	CS3103	Operating Systems	3	
CS2310	Computer Programming	3	CS3334	Data Structures	3	
CS3201	Computer Networks	3	CS3342	Software Design	3	
MA2185	Discrete Mathematics	3	CS3402	Database Systems	3	
	Free Electives / Minor	0-3		Free Electives / Minor	0-3	
		15/ 18			16/ 19	31/ 37

Summer Term 2015 (3rd Year)

Summer		Units			Total
CS-E	CS Elective (1)	3			
GE-6	Gateway Education – GE (6)	3			
		6			6

2015-2016 (3rd Year)

Semester A		Units	Semester B		Units	Total
CS3503	IT Professional Placement	3*	CS3503	IT Professional Placement	6*	
CS3343	Software Engineering Practice	3	CS-E	CS Elective (2)	3	
SS3904	Science, Technology & Society for Computing	3	CS-E	CS Elective (3)	3	
GE-7	Gateway Education – GE (7)	3	GE-8	Gateway Education – GE (8)	3	
		12			15	27

2016-2017 (4th Year)

Semester A		Units	Semester B		Units	Total
CS3612	Seminars on Contemporary Technology II	0	CS3612	Seminars on Contemporary Technology II	1	
CS4335	Design & Analysis of Algorithms	3	CS4514	Project	6*	
CS4514	Project	3*	CS-E	CS Elective (5)	3	
CS-E	CS Elective (4)	3	GE-10	Gateway Education – GE (10)	3	
GE-9	Gateway Education – GE (9)	3		Free Electives / Minor	0-3	
	Free Electives / Minor	1-7				
		13/ 19**			13/ 16	26/ 35

Total Credit Units: 120 – 135# (# Assume a student takes a major and a minor)

Electives: (minimum 15 credit units from these electives)

Information Security Stream – Stream Core:

CS4286 Internet Security and E-Commerce Protocols
 CS4293 Topics on Computer Security
 CS4394 Information Security and Management

Multimedia Computing Stream – Stream Core:

CS3483 Multimodal Interface Design
 CS4182 Computer Graphics
 CS4185 Multimedia Technologies and Applications

Software Engineering and Project Management Stream - Stream Core:

CS3346 Software Testing and Maintenance
 CS3356 Managing Software Projects
 CS4348 Software Quality Management

Data Science Stream – Stream Core:

CS3481 Fundamentals of Data Science
 CS4480 Data-Intensive Computing
 CS4487 Machine Learning

Other Electives:

CS3183 Performance Evaluation
 CS3184 Chinese Computing
 CS3185 Computer Architecture
 CS3282 E-Commerce Technology
 CS3283 Distributed Systems
 CS3371 E-Logistics Application System
 CS3372 Enterprise Systems Development
 CS3382 Web Usability Design and Engineering
 CS3391 Advanced Programming
 CS4183 Advanced Operating Systems
 CS4186 Computer Vision & Image Processing
 CS4187 Computer Vision for Interactivity
 CS4280 Advanced Internet Applications Development
 CS4284 Mobile Computing
 CS4285 High Speed Multimedia Networks
 CS4288 Cryptographic Algorithms and Protocols
 CS4289 Pervasive Computing
 CS4290 Digital Media and Rights Management
 CS4292 Distributed Network Algorithms and Optimization
 CS4295 Mobile Application Programming
 CS4296 Cloud Computing
 CS4297 Cloud Robotics and Automation
 CS4298 iOS Application Development
 CS4367 Computer Games Design
 CS4380 Web 2.0 Technologies
 CS4381 Advanced Software Design
 CS4385 Topics in Software Engineering
 CS4386 AI Game Programming
 CS4388 Artificial Intelligence and Art
 CS4392 Topics in Theory of Computing
 CS4482 Advanced Database Systems
 CS4485 Information Retrieval
 CS4486 Intelligent Systems
 CS4552 Guided Study
 EE4940 Digital Information Communications
 IS4500 Information Systems Project Management
 IS4501 Information Systems Audit
 MA2172 Applied Statistics for Sciences and Engineering

Remarks:

1. * Partial credit units for year-long courses, granted only if completing the whole course.
2. CS1102 /CS1302, MA1200/MA1300 & MA1201/MA1301, AP1201/BCH1100/ BCH1200 (choose two from science areas) Students of the College of Science and Engineering need to earn 15 credit units in fulfillment of the College Requirements.
3. GE = Gateway Education Requirements: Total 30 credit units including 6 credit units in English (GE1401 & GE2410), 3 credit units in Chinese Civilization (GE1501) and 21 credit units in distributional requirements with a minimum of 3 credit units from each of the three areas: 'Arts and Humanities', 'Study of Societies, Social and Business Organisations' and 'Science and Technology' .
4. ** A CGPA of 3.0 is required for study load per semester to go beyond 18 credit units and subject to departmental approval.
5. # Subject to approval.

Notes:

1. English Language Requirement

To fulfil the University's English Language Requirement, students should complete the two Gateway Education (GE) English courses (GE1401 & GE2410). Students cannot proceed to take the above GE English courses (GE1401 & GE2410) until completion of the requirements mentioned below:

- ❖ Students with Level 3 in HKDSE English Language OR Grade E in HKALE AS-level Use of English: Need to take ~EL0200 (6 credit units).
- ❖ Students whose qualifications do not fall within the above: ELC will invite them to sit for an English Placement Test or submit an alternative English proficiency qualification (e.g. TOEFL, IELTS) to ascertain their English standard. A waiver from taking EL0200 may be granted by ELC for students who have achieved the required English proficiency.

~EL0200 'English for Academic Purposes':

Assessment: Standard grading (A+....F);

It will NOT count towards the minimum credit requirement for graduation but will count towards the maximum credit units allowed, and will NOT be calculated in students' CGPA.

2. Chinese Language Requirement

From 2012 cohort onwards, students are required to satisfy the Chinese Language Requirement as follows:

(i)	Students with an HKDSE score below 4 in Chinese, or an HKALE AS Chinese Language and Culture score below D	CHIN1001 University Chinese I*
(ii)	Students with an HKDSE score of 4 or above in Chinese or an HKALE AS Chinese Language and Culture score D or above, or those who have successfully completed the 3-credit unit Chinese course	No requirement
(iii)	Students whose qualifications do not fall within (i) and (ii) above	No requirement

*The 3 credit units of the Chinese course will NOT be counted towards the minimum credit units required for graduation and will NOT be included in the calculation of CGPA.