

2014-2015 (1st Year)

| Semester A | | Units | Semester B | | Units | Total |
|---------------------------|---|-------|---------------------------|--|-------|-------|
| CS1102 / CS1302 (CSpC) | Introduction to Computer Studies / Introduction to Computer Programming - GE (1) | 3 | GE2410 | English for Engineering – GE (5) | 3 | |
| MA1200 / MA1300 (CSpC) | Calculus and Basic Linear Algebra I / Enhanced Calculus and Linear Algebra I - GE (2) | 3 | MA1201 / MA1301 (CSpC) | Calculus and Basic Linear Algebra II / Enhanced Calculus and Linear Algebra II - GE(6) | 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 (3) | 3 | GE-7 | Gateway Education – GE (7) | 3 | |
| GE-4 | Gateway Education – GE (4) | 3 | GE-8 | Gateway Education – GE (8) | 3 | |
| | | 15 | | | 15 | 30 |

Catalogue Term 2015-16

2015-2016 (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 2016 (3rd Year)

| Summer | | Units | | | Total |
|--------|----------------------------|-------|--|--|-------|
| CS-E | CS Elective (1) | 3 | | | |
| GE-9 | Gateway Education – GE (9) | 3 | | | |
| | | 6 | | | 6 |

2016-2017 (3rd Year)

| Semester A | | Units | Semester B | | Units | Total |
|------------|---|-------|---------------|---|-------|-------|
| CS3504 | IT Professional Placement | 6* | CS3504 | IT Professional Placement | 6* | |
| CS3343 | Software Engineering Practice | 3 | CS-E | CS Elective (2) | 3 | |
| SS3904 | Science, Technology & Society for Computing | 3 | GE2326 (DR-2) | Probability in Action: From the Unfinished Game to the Modern World | 3 | |
| DR-1 | Department Required Supporting: @CB / ^GE Course - DR (1) | 3 | | | | |
| | | 15 | | | 12 | 27 |

2017-2018 (4th Year)

| Semester A | | Units | Semester B | | Units | Total |
|------------|---|--------|------------|-----------------------------|--------|-------|
| CS4514 | Project | 3* | CS4514 | Project | 6* | |
| CS4335 | Design & Analysis of Algorithms | 3 | CS-E | CS Elective (4) | 3 | |
| EN4262 | English Communication Skills for Computing | 2 | GE-10 | Gateway Education – GE (10) | 3 | |
| DR-3 | Department Required Supporting: @CB / ^GE Course - DR (3) | 3 | | | | |
| CS-E | CS Elective (3) | 3 | | | | |
| | Free Electives / Minor | 0-3 | | Free Electives / Minor | 0-6 | |
| | | 14/ 17 | | | 12/ 18 | 26/35 |

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

Electives: (minimum 12 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:

CS3185 Computer Architecture
 CS3283 Distributed Systems
 CS3382 Web Usability Design and Engineering
 CS3391 Advanced Programming
 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
 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
 CS4381 Advanced Software Design
 CS4385 Topics in Software Engineering

CS4386 AI Game Programming
 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. | AP1201/BCH1100/ BCH1200 (choose two from science areas) | Students of the College of Science and Engineering need to earn 6 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), 12 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', 9 credit units in College Specified Courses (CSpC). |
| 4. | Department Required Supporting Courses (DR) | 9 credit units in Department Required Supporting Courses, including GE2326 "Probability in Action: From the Unfinished Game to the Modern World", 3 credit units from a pool of department required supporting GE courses and 3 credit units from a pool of department required supporting CB courses. |
| 5. | # | Subject to approval. |

^Department Required Supporting GE courses (choose any one from the following list)

GE2313 Global IT Case Studies
 GE2315 Security and Privacy in the Information Age
 GE2323 Mobile Social Networks: Practices, Challenges, and Beyond
 GE2324 The Art and Science of Data

@Department Required Supporting CB courses (choose any one from the following list)

CB2100 Introduction to Financial Accounting
 CB2300 Management
 CB2500 Information Management
 CB2601 Marketing

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 scoring below Level 4 in HKDSE English Language OR below Grade D in HKALE AS-level Use of English: Need to take ~EL0200 (6 credit units).
- ❖ For students who do not have Hong Kong public examinations results as specified above, the English Learning Centre (ELC) will invite them to sit for an English Placement Test to determine whether they need to take the course EL0200. Students may, instead of taking the Test, provide an alternative English proficiency qualification (e.g. TOFEL or IELTS) for consideration by the ELC. A waiver from taking the EL0200 may be granted 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 and will NOT be included in the calculation of CGPA. However, they will be counted towards the maximum credit units permitted.

2. Chinese Language Requirement

| | | |
|-------|---|--|
| (i) | Students scoring below Level 4 in HKDSE Chinese Language, or below Grade D in HKALE AS-level Chinese Language and Culture | 3-credit unit Chinese course (CHIN1001)* |
| (ii) | Students scoring Level 4 or above in HKDSE Chinese Language, or Grade D or above in HKALE AS-level Chinese Language and Culture | 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. However, they will be counted towards the maximum credit units permitted.*

Updated on 15 June 2017