## Sample Study Schedule under <u>Advanced Standing I</u>    BSCEGU3-CSC    Cohort 2016
## (For students holding an Associate Degree/Higher Diploma or    UGC Funded
## equivalent qualifications)

### Catalogue Term 2016-17

### 2016-2017 (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 | |
| GE2410 | English for Engineering - GE (1) | 3 | GE1401 | University English – GE (2) | 3 | |
| | | 18 | | | 19 | 37 |

### Summer Term 2017 (3rd Year)

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

### 2017-2018 (3rd Year)

| Semester A | | Units | Semester B | | Units | Total |
|---|---|---|---|---|---|---|
| CS3504 | IT Professional Placement | 6* | CS3504 | IT Professional Placement | 6* | |
| CS3343 | Software Engineering Practice | 3 | SS3904 | Science, Technology & Society for Computing | 3 | |
| CS4335 | Design & Analysis of Algorithms | 3 | CS-E | CS Elective (2) | 3 | |
| | | | GE2326 (CSpC) | Probability in Action: From the Unfinished Game to the Modern World - GE (4) | 3 | |
| | | 12 | | | 15 | 27 |

### Summer Term 2018 (4th Year)

| *Encourage to participate in Go Global* Activities [activities / programmes outside Hong Kong for not less than 4 weeks (28 days)] |
|---|

### 2018-2019 (4th Year)

| Semester A | | Units | Semester B | | Units | Total |
|---|---|---|---|---|---|---|
| CS4514 | Project | 3* | CS4514 | Project | 6* | |
| EN4262 | English Communication Skills for Computing | 2 | CS-E | CS Elective (4) | 3 | |
| CS-E | CS Elective (3) | 3 | GE-7 | Gateway Education – GE (7) | 3 | |
| CSpC | College Specified Courses  – GE (5)^ | 3 | | | | |
| GE-6 | Gateway Education – GE (6) | 3 | | | | |
| | | 14 | | | 12 | 26 |

**Total Credit Units: 96 (minimum graduation requirement)**
**Maximum Credit Units: 114 (student may take a minor or opt to take more free electives provided that they have not yet reached the maximum credit limit or maximum period of study permitted.)**

**Electives:** (minimum 12 credit units from the following electives)

Students may choose any of the streams by taking **3** courses of the selected stream. For those who do not want to focus on a selected stream, they can take any **4** elective courses from the list.

**Information Security Stream – Stream Core:**
CS4286  Internet Security and E-Commerce Protocols
CS4293  Topics on Cybersecurity
CS4394  Information Security and Management

**Multimedia Computing Stream – Stream Core:**
CS3483  Multimodal Interface Design
CS4182  Computer Graphics
*Choose one out of the following four courses:*
CS4185  Multimedia Technologies and Applications
CS4186  Computer Vision & Image Processing
CS4187  Computer Vision for Interactivity
CS4188  Virtual Reality

**Software Engineering and Project Management Stream - Stream Core:**
*Choose three out of the following four courses:*
CS3346  Software Testing and Maintenance
CS3356  Managing Software Projects
CS4348  Software Quality Management
CS4389  Decentralized Applications Development

**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
CS4280  Advanced Internet Applications Development
CS4284  Mobile Computing
CS4285  High Speed Multimedia Networks
CS4288  Cryptographic Algorithms and Protocols
CS4289  Pervasive Computing
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  Artificial Intelligence
CS4552  Guided Study
EE4940  Digital Information Communications
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. | GE | = Gateway Education Requirements: Total 21 credit units including 6 credit units in English (GE1401 & GE2410), 3 credit units in Chinese Civilization (GE1501), 6 credit units in distributional requirements from the **two different areas**: 'Arts and Humanities', 'Study of Societies, Social and Business Organisations' and 'Science and Technology' , 6 credit units in College Specified Courses (CSpC) including GE2326 "Probability in Action: From the Unfinished Game to the Modern World" and 3 credit units from a pool of College Specified Courses. |
| 3. | *Go Global* Activities | Activities / programmes which enable students to broaden their cultural horizons through a comprehensive and unique learning experience, either credit bearing or noncredit bearing, outside Hong Kong for not less than 4 weeks (28 days), e.g. Exchange, Internship, Cultural and Language Immersion Scheme, Service Learning and Study Abroad programme. |

**^College Specified 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

GE2338 Internet Applications and Security

GE2340 Artificial Intelligence – Past, Present, and Future

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 ~EL0200A & EL0200B (6 credit units).

- ❖ 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.

- ❖ 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 EL0200A & B. 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 EL0200A & B may be granted for students who have achieved the required English proficiency. <u>New admitted students should raise the request to ELC in the first semester. Requests after the first semester will not be considered.</u>

<u>**~EL0200A & EL0200B 'English for Academic Purposes 1 & 2':**</u>

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 31 July 2018*