

**Sample Study Schedule**  
**(Normative 4-Year Degree, Common First Year)**

**BSCEGU4-CSC Cohort 2022**  
**UGC Funded**

|                                      |   |   |   |   |   |                             |
|--------------------------------------|---|---|---|---|---|-----------------------------|
| GE Requirements<br>(30 credit units) | + | College / School Requirements<br>(6 credit units) | + | Major Requirements, including<br>11 credit units for Department Required<br>Supporting Courses<br>(84 credit units) | = | Total<br>(120 credit units) |
|--------------------------------------|---|---|---|---|---|-----------------------------|

**Catalogue Term 2022-23**

**2022-2023 (1<sup>st</sup> Year)**

| Semester A                         |   | Units | Semester B                  |   | Units | Total |
|------------------------------------|---|-------|-----------------------------|---|-------|-------|
| CS1302                             | Introduction to Computer Programming  | 3     | GE2410                      | English for Engineering – GE (4)  | 3     |       |
| MA1200 /<br>MA1300<br>[CSpC]       | Calculus and Basic Linear Algebra I /<br>Enhanced Calculus and Linear Algebra I -<br>GE (1)                       | 3     | MA1201/<br>MA1301<br>[CSpC] | Calculus and Basic Linear Algebra II /<br>Enhanced Calculus and Linear Algebra II –<br>GE (5) | 3     |       |
| PHY1201 /<br>CHEM1300/<br>CHEM1200 | General Physics I (pre-reg.) /<br>Principles of General Chemistry (pre-reg.) /<br>Discovery in Biology (pre-reg.) | 3     | CS2204                      | Fundamentals of Internet Applications<br>Development  | 3     |       |
| GE1401                             | University English – GE (2)   | 3     | CS2402                      | Introduction to Computational Probability<br>Modelling  | 3     |       |
| JC2066<br>[CSpC]                   | IT Professionals: Ethical, Legal and Social<br>Issues – GE (3)  | 3     | CS2310                      | Computer Programming  | 3     |       |
|                                    |   | 15    |                             |   | 15    | 30    |

**Summer Term 2023 (1<sup>st</sup> Year)**

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

**2023-2024 (2<sup>nd</sup> 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     | CS3103     | Operating Systems  | 3     |       |
| CS2312     | Problem Solving and Programming       | 3     | CS3342     | Software Design  | 3     |       |
| CS3201     | Computer Networks                     | 3     | CS3402     | Database Systems   | 3     |       |
| CS3334     | Data Structures                       | 3     | DR-1       | Department Required Supporting:<br>@CB / ^GE Course - DR (1) | 3     |       |
| MA2185     | Discrete Mathematics                  | 3     | GE-6       | Gateway Education – GE (6)                                   | 3     |       |
|            |                                       | 15    |            |  | 16    | 31    |

**Summer Term 2024 (2<sup>nd</sup> Year)**

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

**OR**

|      |                            | Units | Total |
|------|----------------------------|-------|-------|
| GE-7 | Gateway Education – GE (7) | 3     |       |
|      |                            | 3     | 3     |

**2024-2025 (3<sup>rd</sup> 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 (1)            | 3     |       |
| CS4335     | Design & Analysis of Algorithms | 3     | CS-E       | CS Elective (2)            | 3     |       |
|            |                                 | 12    | GE-8       | Gateway Education – GE (8) | 3     |       |
|            |                                 |       |            |                            | 15    | 27    |

**Summer Term 2025 (3<sup>rd</sup> Year)**

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

**2025-2026 (4<sup>th</sup> Year)**

| Semester A |  | Units | Semester B |                             | Units | Total |
|------------|--|-------|------------|-----------------------------|-------|-------|
| CS4514     | Project  | 3*    | CS4514     | Project                     | 6*    |       |
| EN4262     | English Communication Skills for<br>Computing                | 2     | CS-E       | CS Elective (5)             | 3     |       |
| DR-2       | Department Required Supporting:<br>@CB / ^GE Course - DR (2) | 3     | GE-9       | Gateway Education – GE (9)  | 3     |       |
| CS-E       | CS Elective (3)  | 3     | GE-10      | Gateway Education – GE (10) | 3     |       |
| CS-E       | CS Elective (4)  | 3     |            |                             |       |       |
|            |  | 14    |            |                             | 15    | 29    |

**Total Credit Units: 120 (minimum graduation requirement)**

**Maximum Credit Units: 144 (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 15 credit units from the following electives)

Students may choose any of the streams by taking **3** courses of the selected stream and any **2** elective courses from the list. For those who do not want to focus on a selected stream, they can take any **5** elective courses from the list.

**Artificial Intelligence Stream – Stream Core:**  
(effective from Sem A 2019-20)

- CS4486 Artificial Intelligence
  - CS4487# Machine Learning
- Choose one out of the following two courses:
- CS4186% Computer Vision & Image Processing
  - CS4386 AI Game Programming

**Data Science Stream – Stream Core:**

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

**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 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

**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
- CS4482 Advanced Database Systems
- CS4485 Information Retrieval
- CS4552 Guided Study
- MA2172 Applied Statistics for Sciences and Engineering

#, % - same courses

**Remarks:**

|    |   |  |
|----|---|--|
| 1. | *   | Partial credit units for year-long courses, granted only if completing the whole course.   |
| 2. | Gateway Education (GE) Requirements (30 credit units)         | - 6 credit units in English <b>GE1401 &amp; GE2410</b><br>- 3 credit units in Chinese Civilization <b>GE1501</b><br>- 12 credit units in <b>Distributional Requirements</b> 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'<br>- 9 credit units in <b>College Specified Courses</b> <b>CSpC</b> . |
| 3. | College / School Requirements (6 credit units)                | Students of the College of Engineering need to earn 6 credit units in fulfillment of the College Requirements.<br>- 3 credit units in <b>PHY1201/CHEM1300/ CHEM1200</b> (choose one from science areas)<br>- 3 credit units for <b>CS1302</b>  |
| 4. | Department Required Supporting Courses (DR) (11 credit units) | - 5 credit units for <b>MA2185</b> and <b>EN4262</b><br>- 3 credit units from a pool of <b>Department Required Supporting GE courses</b><br>- 3 credit units from a pool of <b>Department Required Supporting CB courses</b>   |
| 5. | 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.  |

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

- GE2313 Global IT Case Studies
- GE2324 The Art and Science of Data
- GE2338 Internet Applications and Security

**@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 ~LC0200A & LC0200B (6 credit units).
- ❖ Students who demonstrate that they have achieved a grade B or above in their overall course results for LC0200A 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 LC0200B.
- ❖ For students who do not have Hong Kong public examinations results as specified above, the Chan Feng Men-ling Chan Shuk-lin Language Centre (LC) will invite them to sit for an English Placement Test to determine whether they need to take the course LC0200A & B. Students may, instead of taking the Test, provide an alternative English proficiency qualification (e.g. TOFEL or IELTS) for consideration by the LC. A waiver from taking the LC0200A & B may be granted for students who have achieved the required English proficiency. New admitted students should raise the request to LC in the first semester. Requests after the first semester will not be considered.

**~LC0200A & LC0200B 'English for Academic Purposes 1 & 2':**

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 7 June 2022*