

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

**BSCCCU4-CSC1 Cohort 2025**  
**UGC Funded**

|                                      |   |   |   |  |   |                             |
|--------------------------------------|---|---|---|--|---|-----------------------------|
| GE Requirements<br>(31 credit units) | + | College / School Requirements<br>(8 credit units) | + | Major Requirements, including<br>9 credit units for Department Required<br>Supporting Courses<br>(83 credit units) | = | Total<br>(122 credit units) |
|--------------------------------------|---|---|---|--|---|-----------------------------|

**Catalogue Term 2025-26**

**2025-2026 (1<sup>st</sup> Year)**

| Semester A |   |  | Units | Semester B |   |  | Units | Total |
|------------|---|--|-------|------------|---|--|-------|-------|
| GE1401     | University English – GE                           |  | 3     | GE2410     | English for Engineering – GE                        |  | 3     |       |
| GE1601     | Whole-Person Development - GE                     |  | 1     | GE1501     | Chinese Civilisation - History and Philosophy – GE  |  | 3     |       |
| MA1508     | Calculus  |  | 4     | MA1503     | Linear Algebra with Applications                    |  | 4     |       |
| CS1302     | Introduction to Computer Programming - GE         |  | 3     | CS2402     | Introduction to Computational Probability Modelling |  | 3     |       |
| CSpC       |   |  |       |            |   |  |       |       |
| CS2115     | Computer Organization                             |  | 3     | CS2310     | Computer Programming                                |  | 3     |       |
| CS2204     | Fundamentals of Internet Applications Development |  | 3     |            |   |  |       |       |
|            |   |  | 17    |            |   |  | 16    | 33    |

**Summer Term 2026 (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)]*

**2026-2027 (2<sup>nd</sup> Year)**

| Semester A |                                     |  | Units | Semester B |   |  | Units | Total |
|------------|-------------------------------------|--|-------|------------|---|--|-------|-------|
| CS2613     | Seminars on Contemporary Technology |  | 1     | CS2613     | Seminars on Contemporary Technology                       |  | 1     |       |
| CS2312     | Problem Solving and Programming     |  | 3     | CS3103     | Operating Systems   |  | 3     |       |
| CS3201     | Computer Networks                   |  | 3     | CS3342     | Software Design   |  | 3     |       |
| CS3334     | Data Structures                     |  | 3     | CS3402     | Database Systems - GE                                     |  | 3     |       |
|            |                                     |  |       | CSpC       |   |  |       |       |
| GE Area    | Gateway Education – GE              |  | 3     | JC2066     | IT Professionals: Ethical, Legal and Social Issues – GE   |  | 3     |       |
|            |                                     |  |       | CSpC       |   |  |       |       |
| MA2185     | Discrete Mathematics                |  | 3     | DR-1       | Department Required Supporting: @CB / ^GE Course - DR (1) |  | 3     |       |
|            |                                     |  | 16    |            |   |  | 16    | 32    |

**Summer Term 2027 (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 Area | Gateway Education – GE | 3     |       |
|         |                        | 3     | 3     |

**2027-2028 (3<sup>rd</sup> Year)**

| Semester A |                                 |  | Units | Semester B |                            |  | Units | Total |
|------------|---------------------------------|--|-------|------------|----------------------------|--|-------|-------|
| CS3505     | IT Professional Internship      |  | 6*    | CS3505     | IT Professional Internship |  | 3*    |       |
| CS-E       | CS Elective (1)                 |  | 3     | CS-E       | CS Elective (2)            |  | 3     |       |
| CS4335     | Design & Analysis of Algorithms |  | 3     | CS-E       | CS Elective (3)            |  | 3     |       |
|            |                                 |  |       | GE Area    | Gateway Education – GE     |  | 3     |       |
|            |                                 |  | 12    |            |                            |  | 12    | 24    |

**Option 1: take CS3505 (9 credits)**

or

**Option 2: take CS3000 Professional Career Development Internship (0 credit unit) [minimum internship duration of 160 hours (equivalent to 4 weeks of full-time work)] AND compensate 9 credit units from CS Electives (for option 2: require CGPA 3.2 or above)**

**2027-2028 (3<sup>rd</sup> Year)**

| Semester A |                                 |  | Units | Semester B |                        |  | Units | Total |
|------------|---------------------------------|--|-------|------------|------------------------|--|-------|-------|
| CS-E       | CS Elective (+1)                |  | 3     | CS-E       | CS Elective (+1)       |  |       |       |
| CS-E       | CS Elective (+1)                |  | 3     | CS-E       | CS Elective (2)        |  | 3     |       |
| CS-E       | CS Elective (1)                 |  | 3     | CS-E       | CS Elective (3)        |  | 3     |       |
| CS4335     | Design & Analysis of Algorithms |  | 3     | GE Area    | Gateway Education – GE |  | 3     |       |
|            |                                 |  | 12    |            |                        |  | 12    | 24    |

## Summer Term 2028 (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)]

## 2028-2029 (4<sup>th</sup> Year)

| Semester A |  |  | Units | Semester B |                        |  | Units | Total |
|------------|--|--|-------|------------|------------------------|--|-------|-------|
| CS4514     | Project  |  | 3*    | CS4514     | Project                |  | 6*    |       |
| DR-2       | Department Required Supporting:<br>@CB / ^GE Course - DR (2) |  | 3     | CS-E       | CS Elective (7)        |  | 3     |       |
| CS-E       | CS Elective (4)  |  | 3     | CS-E       | CS Elective (8)        |  | 3     |       |
| CS-E       | CS Elective (5)  |  | 3     | GE Area    | Gateway Education – GE |  | 3     |       |
| CS-E       | CS Elective (6)  |  | 3     |            |                        |  |       |       |
|            |  |  | 15    |            |                        |  | 15    | 30    |

Total Credit Units: 122 (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 24 credit units from the following electives)

Students may choose any of the streams by taking **3** courses of the selected stream and any **5** elective courses from the list. For those who do not want to focus on a selected stream, they can take any **8** elective courses from the list.

### Artificial Intelligence Stream – Stream Core:

CS4486 Artificial Intelligence

CS4487# Machine Learning

Choose one out of the following six courses:

CS3383 AI for Software Engineering

CS4186% Computer Vision & Image Processing

CS4386 AI Game Programming

CS4489 Optimization Foundations for AI Training

CS4490 Generative AI Essentials and Applications

CS4493 Natural Language Processing

### Other Electives:

CS3283 Distributed Systems

CS3382 Web Usability Design and Engineering

CS3391 Advanced Programming

CS4280 Advanced Internet Applications Development

CS4284 Mobile Computing

CS4288 Cryptographic Algorithms and Protocols

CS4295 Mobile Application Programming

CS4296 Cloud Computing

CS4298 iOS Application Development

CS4367 Computer Games Design

CS4381 Advanced Software Design

CS4385 Topics in Software Engineering

CS4485 Information Retrieval

CS4552 Guided Study

MA2172 Applied Statistics for Sciences and Engineering

### Data Science Stream – Stream Core:

CS3481 Fundamentals of Data Science

CS4480 Data-Intensive Computing

CS4487# Machine Learning

### Cybersecurity 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 five courses:

CS3189 User-centred Interaction Design

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

### Data Empowerment: Learn, Transform and Achieve Stream (only for students admitted via 1070 (JS1070))

Data Empowerment: Learn, Transform and Achieve Stream: Stream Core

| Course Code | Course Title                           | Credit Units |
|-------------|--|--------------|
| CS3505      | IT Professional Internship             | 9            |
| SDSC3026    | International Professional Development | 3            |

#, % - same courses

**Remarks:**

|    |  |   |
|----|--|---|
| 1. | *  | Partial credit units for year-long courses, granted only if completing the whole course.  |
| 2. | Gateway Education (GE) Requirements (31 credit units)        | - 6 credit units in English <b>GE1401 &amp; GE2410</b><br>- 3 credit units in Chinese Civilization <b>GE1501</b><br>- 1 credit unit in Whole-Person Development <b>GE1601</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 (8 credit units)               | Students of the College of Computing need to earn 6 credit units in fulfillment of the College Requirements: <b>MA1508</b> and <b>MA1503</b>  |
| 4. | Department Required Supporting Courses (DR) (9 credit units) | - 3 credit units for <b>MA2185</b><br>- 3 credit units from a pool of <b>Department Required Supporting GE courses<sup>^</sup></b><br>- 3 credit units from a pool of <b>Department Required Supporting CB courses<sup>@</sup></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.   |

**<sup>^</sup>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 Everyday Security – Protecting Yourself in the Digital Age

GE2340 Artificial Intelligence – Past, Present, and Future

**<sup>@</sup>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 4 August 2025*