

**Sample Study Schedule under Advanced Standing I**  
**(For students holding an Associate Degree/Higher Diploma or**  
**equivalent qualifications)**

**BSCEGU3-CSC Cohort 2021**  
**UGC Funded**

GE Requirements (21 credit units)	+	College / School Requirements All waived (0 credit unit)	+	Major Requirements (75 credit units)	=	<b>Total (96 credit units)</b>
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**Catalogue Term 2021-22**

**2021-2022 (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	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	
GE1401	University English – GE (1)		3	GE2410	English for Engineering - GE (2)		3	
			18				19	37

**Summer Term 2022 (2<sup>nd</sup> Year)**

<i>Encourage to participate in Go Global Activities [activities / programmes outside Hong Kong for not less than 4 weeks (28 days)]</i>				
<b>OR</b>				
			Units	Total
GE-3	Gateway Education – GE (3)		3	
			3	3

**2022-2023 (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	
				CS2402 (CSpC)	Introduction to Computational Probability Modelling - GE (4)		3	
			12				15	27

**Summer Term 2023 (3<sup>rd</sup> Year)**

<i>Encourage to participate in Go Global Activities [activities / programmes outside Hong Kong for not less than 4 weeks (28 days)]</i>				
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**2023-2024 (4<sup>th</sup> 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	
CS2066	IT Professionals and Society		3	GE-6	Gateway Education – GE (6)		3	
CS-E	CS Elective (3)		3	GE-7	Gateway Education – GE (7)		3	
CSpC	College Specified Courses – GE (5) <sup>^</sup>		3					
			14				15	29

**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 and any **1** elective course from the list. For those who do not want to focus on a selected stream, they can take any **4** 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

**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

**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

#, % - same courses

**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 <b>two different areas</b> : 'Arts and Humanities', 'Study of Societies, Social and Business Organisations' and 'Science and Technology', 6 credit units in College Specified Courses (CSpC) including CS2402 "Introduction to Computational Probability Modelling" 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. New admitted students should raise the request to ELC in the first semester. Requests after the first semester will not be considered.

#### **~EL0200A & EL0200B '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 19 April 2021*