

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

**BSCEGU4-CSC Cohort 2018**  
**UGC Funded**

**Catalogue Term 2018-19**

**2018-2019 (1<sup>st</sup> 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 (4)	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(5)	3	
PHY1201 / BCH1100/ BCH1200	General Physics I / Chemistry (pre-reg.) / Discovery in Biology (pre-reg.)	3	PHY1201 / BCH1100/ BCH1200	General Physics I (pre-reg.) / Chemistry / Discovery in Biology (pre-reg.)	3	
GE1401	University English – GE (3)	3	CS2402	Introduction to Computational Probability Modelling	3	
CS2204	Fundamentals of Internet Applications Development	3	CS2310	Computer Programming	3	
		15			15	30

**Summer Term 2019 (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)]*

**2019-2020 (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: @CB / ^GE Course - DR (1)	3	
MA2185	Discrete Mathematics	3	GE-6	Gateway Education – GE (6)	3	
		15			16	31

**Summer Term 2020 (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)]*

**OR**

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

**2020-2021 (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	CS Elective (1)	3	
CS4335	Design & Analysis of Algorithms	3	GE-8	Gateway Education – GE (8)	3	
			GE-9	Gateway Education – GE (9)	3	
		12			15	27

**Summer Term 2021 (4<sup>th</sup> Year)**

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

**2021-2022 (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	
DR-2	Department Required Supporting: @CB / ^GE Course - DR (2)	3	CS2066	IT Professionals and Society	3	
CS-E	CS Elective (2)	3	GE-10	Gateway Education – GE (10)	3	
CS-E	CS Elective (3)	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 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.

<b>Artificial Intelligence Stream – Stream Core:</b> (effective from Sem A 2019-20)		<b>Other Electives:</b>	
CS4486	Artificial Intelligence	CS3185	Computer Architecture
CS4487#	Machine Learning	CS3283	Distributed Systems
<i>Choose one out of the following two courses:</i>		CS3382	Web Usability Design and Engineering
CS4186%	Computer Vision & Image Processing	CS3391	Advanced Programming
CS4386	AI Game Programming	CS4280	Advanced Internet Applications Development
		CS4284	Mobile Computing
		CS4285	High Speed Multimedia Networks
<b>Data Science Stream – Stream Core:</b>		CS4288	Cryptographic Algorithms and Protocols
CS3481	Fundamentals of Data Science	CS4289	Pervasive Computing
CS4480	Data-Intensive Computing	CS4295	Mobile Application Programming
CS4487#	Machine Learning	CS4296	Cloud Computing
		CS4297	Cloud Robotics and Automation
<b>Information Security Stream – Stream Core:</b>		CS4298	iOS Application Development
CS4286	Internet Security and E-Commerce Protocols	CS4367	Computer Games Design
CS4293	Topics on Cybersecurity	CS4381	Advanced Software Design
CS4394	Information Security and Management	CS4385	Topics in Software Engineering
		CS4482	Advanced Database Systems
<b>Multimedia Computing Stream – Stream Core:</b>		CS4485	Information Retrieval
CS3483	Multimodal Interface Design	CS4552	Guided Study
CS4182	Computer Graphics	EE4940	Digital Information Communications
<i>Choose one out of the following four courses:</i>		IS4501	Information Systems Audit
CS4185	Multimedia Technologies and Applications	MA2172	Applied Statistics for Sciences and Engineering
CS4186%	Computer Vision & Image Processing		
CS4187	Computer Vision for Interactivity		
CS4188	Virtual Reality		
<b>Software Engineering and Project Management - Stream Core:</b>			
<i>Choose three out of the following four courses:</i>			
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.	PHY1201/BCH1100/ BCH1200 (choose two from science areas)	Students of the College of 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)	6 credit units in Department Required Supporting Courses, including 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.	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

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 ~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 26 May 2020*