

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

**BSCEGU4-CSC Cohort 2020
UGC Funded**

GE Requirements (30 credit units)	+	College / School Requirements (6 credit units)	+	Major Requirements, including 11 credit units for Department Required Supporting Courses (84 credit units)	=	Total (120 credit units)
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Catalogue Term 2020-21

2020-2021 (1st Year)

Semester A		Units	Semester B		Units	Total
CS1302	Introduction to Computer Programming	3	GE2410	English for Engineering – GE (3)	3	
MA1200 / MA1300 [CSpC]	Calculus and Basic Linear Algebra I / Enhanced Calculus and Linear Algebra I - GE (1)	3	MA1201/ MA1301 [CSpC]	Calculus and Basic Linear Algebra II / Enhanced Calculus and Linear Algebra II – GE (4)	3	
PHY1201 / CHEM1300/ CHEM1200	General Physics I (pre-reg.) / Principles of General Chemistry (pre-reg.) / Discovery in Biology (pre-reg.)	3	CS2066 [CSpC]	IT Professionals and Society – GE (5)	3	
GE1401	University English – GE (2)	3	CS2402	Introduction to Computational Probability Modelling	3	
CS2204	Fundamentals of Internet Applications Development	3	CS2310	Computer Programming	3	
		15			15	30

Summer Term 2021 (1st Year)

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

2021-2022 (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	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 2022 (2nd 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

2022-2023 (3rd 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 2023 (3rd Year)

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

2023-2024 (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 (5)	3	
DR-2	Department Required Supporting: @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

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.	Gateway Education (GE) Requirements (30 credit units)	- 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 .
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. - 3 credit units in PHY1201/CHEM1300/ CHEM1200 (choose one from science areas) - 3 credit units for CS1302
4.	Department Required Supporting Courses (DR) (11 credit units)	- 5 credit units for MA2185 and EN4262 - 3 credit units from a pool of Department Required Supporting GE courses - 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

@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 25 May 2020