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

BSCEGU4-CSC   Cohort 2023
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)

Catalogue Term 2023-24

2023-2024 (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 / Principles of General Chemistry / Discovery in Biology	3	GE1501	Chinese Civilisation - History and Philosophy – 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 2024 (1st Year)

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

2024-2025 (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	JC2066 CSpC	IT Professionals: Ethical, Legal and Social Issues – GE (6)	3	
		15			16	31

Summer Term 2025 (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

2025-2026 (3rd Year)

Semester A		Units	Semester B		Units	Total
CS3505	IT Professional Internship	6*	CS3505	IT Professional Internship	3*	
CS3343	Software Engineering Practice	3	CS-E	CS Elective (1)	3	
CS4335	Design & Analysis of Algorithms	3	CS-E	CS Elective (2)	3	
			GE-8	Gateway Education – GE (8)	3	
		12			12	24

Summer Term 2026 (3rd Year)

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

2026-2027 (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	CS-E	CS Elective (6)	3	
GE-9	Gateway Education – GE (9)	3	GE-10	Gateway Education – GE (10)	3	
CS-E	CS Elective (3)	3				
CS-E	CS Elective (4)	3				
		17			15	32

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 18 credit units from the following electives)

Students may choose any of the streams by taking **3** courses of the selected stream and any **3** elective courses from the list. For those who do not want to focus on a selected stream, they can take any **6** 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 **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 untis)	- 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

GE2324 The Art and Science of Data

GE2338 Internet Applications and Security

GE2340 Artificial Intelligence – Past, Present, and Future

@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 6 February 2024