

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

Catalogue Term 2025-26

2025-2026 (1st 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 CSpC	Introduction to Computer Programming - GE	3	CS2402	Introduction to Computational Probability Modelling	3	
CS2115	Computer Organization	3	CS2310	Computer Programming	3	
CS2204	Fundamentals of Internet Applications Development	3				
		17			16	33

Summer Term 2026 (1st Year)

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

2026-2027 (2nd 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 CSpC	Database Systems - GE	3	
GE Area	Gateway Education – GE	3	JC2066 CSpC	IT Professionals: Ethical, Legal and Social Issues – GE	3	
MA2185	Discrete Mathematics	3	DR-1	Department Required Supporting: @CB / ^GE Course - DR (1)	3	
		16			16	32

Summer Term 2027 (2nd Year)

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

OR

GE Area	Gateway Education – GE	Units	Total
		3	3
		3	3

2027-2028 (3rd 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 (3rd 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 (3rd Year)

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

2028-2029 (4th Year)

Semester A		Units	Semester B		Units	Total
CS4514	Project	3*	CS4514	Project	6*	
DR-2	Department Required Supporting: @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
<i>Choose one out of the following six courses:</i>	
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
<i>Choose one out of the following five courses:</i>	
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)	<ul style="list-style-type: none"> - 6 credit units in English GE1401 & GE2410 - 3 credit units in Chinese Civilization GE1501 - 1 credit unit in Whole-Person Development GE1601 - 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 (8 credit units)	Students of the College of Computing need to earn 6 credit units in fulfillment of the College Requirements: MA1508 and MA1503
4.	Department Required Supporting Courses (DR) (9 credit units)	<ul style="list-style-type: none"> - 3 credit units for MA2185 - 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 Everyday Security – Protecting Yourself in the Digital Age

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 4 August 2025