

GE Requirements (39 credit units)	+	College / School Requirements (12 credit units)	+	Major Requirements, including (99 credit units)	=	Total (150 credit units)
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Catalogue Term 2024-25**2024-2025 (1st Year)**

Semester A	Units	Semester B	Units	Total
CB2100 Introduction to Financial Accounting	3	CB2402 Macroeconomics	3	
CB2400 Microeconomics	3	CB3410 Financial Management	3	
CS1302 Introduction to Computer Programming	3	CS2310 Computer Programming	3	
CS2204 Fundamentals of Internet Applications Development	3	GE2410 English for Engineering or GE2402 English for Business Communication	3	
GE1401 University English	3	MA1201 Calculus and Basic Linear Algebra II or MA1301 Enhanced Calculus and Linear Algebra II	3	
MA1200 Calculus and Basic Linear Algebra I or MA1300 Enhanced Calculus and Linear Algebra I	3			
	18		15	33

2025-2026 (2nd Year)

Semester A	Units	Semester B	Units	Total
CS2115 Computer Organization	3	JC2066 IT Professionals: Ethical, Legal and Social Issues	3	
CS2312 Problem Solving and Programming	3	CS3342 Software Design	3	
CS3402 Database Systems	3	EF4313 Corporate Finance	3	
EF3320 Security Analysis and Portfolio Management	3	MA2510 Probability and Statistics	3	
MA2001 Multi-variable Calculus and Linear Algebra	3	MA3511 Ordinary Differential Equations	3	
MA2185 Discrete Mathematics	3	MS3601 Optimization Methods	3	
	18		18	36

2026-2027 (3rd Year)

Semester A	Units	Semester B	Units	Total
CS2611 Seminars on Contemporary Technology I	0	CS2611 Seminars on Contemporary Technology I	1	
CS3201 Computer Networks	3	CS3334 Data Structures	3	
EF3520 Stochastic Calculus for Finance	3	EF4820 Derivatives Pricing I: Stock and FX	3	
EF4321 Derivatives and Risk Management	3	EF4822 Financial Econometrics	3	
MS2602 Statistical Inference	3	GE1501 Chinese Civilisation - History and Philosophy	3	
MS3252 Regression Analysis	3			
MA3525 Elementary Numerical Methods	3			
	18		13	31

2027-2028 (4th Year)

Semester A	Units	Semester B	Units	Total
CS3505 IT Professional Internship	6*	CS3505 IT Professional Internship	3*	
CS3343 Software Engineering Practice	3	CS3103 Operating Systems	3	
CS4335 Design & Analysis of Algorithms	3	GE-1 Gateway Education (Area) – GE (1)	3	
	12	CS-E CS Elective	3	
			12	24

2028-2029 (5th Year)

Semester A	Units	Semester B	Units	Total
CB4001 Honor Thesis	3	CS4514A Project	6	
EN4262 English Communication Skills for Computing	2	EF4328 Asset Management	3	
EF4821 Derivatives Pricing II: Interest Rate and Credit Risk	3	GE-4 Gateway Education (Area) – GE (4)	3	
GE-2 Gateway Education (Area) – GE (2)	3			
GE-3 Gateway Education (Area) – GE (3)	3			
	14		12	26

Total Credit Units: 150 (minimum graduation requirement)

Maximum Credit Units: 180 (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.)

Elective: (minimum 3 credit units from the following electives)

CS3185	Computer Architecture	CS4293	Topics in Cybersecurity
CS3283	Distributed Systems	CS4295	Mobile Application Programming
CS3346	Software Testing and Maintenance	CS4296	Cloud Computing
CS3356	Managing Software Projects	CS4297	Cloud Robotics and Automation
CS3382	Web Usability Design and Engineering	CS4298	iOS Application Development
CS3391	Advanced Programming	CS4348	Software Quality Management
CS3481	Fundamentals of Data Science	CS4367	Computer Games Design
CS3483	Multimodal Interface Design	CS4381	Advanced Software Design
CS4182	Computer Graphics	CS4385	Topics in Software Engineering
CS4185	Multimedia Technologies and Applications	CS4386	AI Game Programming
CS4186	Computer Vision and Image Processing	CS4389	Decentralized Applications Development
CS4187	Computer Vision for Interactivity	CS4394	Information Security and Management
CS4188	Virtual Reality	CS4480	Data-Intensive Computing
CS4280	Advanced Internet Applications Development	CS4482	Advanced Database Systems
CS4284	Mobile Computing	CS4485	Information Retrieval
CS4285	High Speed Multimedia Networks	CS4486	Artificial Intelligence
CS4286	Internet Security and E-Commerce Protocols	CS4487	Machine Learning
CS4288	Cryptographic Algorithms and Protocols	CS4552	Guided Study
CS4289	Pervasive Computing		

Remarks:

* Partial credit units for year-long courses, granted only if completing the whole course.

Please refer to the curriculum page for more information including Prerequisite and Precursor requirements of individual courses:

https://www.cityu.edu.hk/catalogue/ug/current/DoubleDegree/DBSCBSC_D004-4.htm

Updated on 15 November 2024