Four-Year Study Plan of Computer Science and Technology Programme (2021cohort)

										Rev	20230222
Course Code	Course Title	Year One			Year Two		Year Three		Year Four		
Course Code	Course Title	Sem 1	Winter	Sem 2	Summer	Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2
I. Major Required	Courses (54 Units)										
COMP1023	Foundations of C Programming	3									
MATH1003	Linear Algebra	3									
MATH1123	Calculus for Science and Engineering	3									
COMP1033	Systems and Web Development Workshop			3							
COMP2013	Object-Oriented Programming			3							
MATH2003	Discrete Structures			3							
COMP1003	Computer Organisation					3					
COMP2003	Data Structures and Algorithms					3					
COMP3013	Database Management Systems					3					
COMP2073	Data Programming Workshop						3				
COMP3003	Data Communications and Networking						3				
COMP3023	Design and Analysis of Algorithms						3				
COMP3033	Operating Systems						3				
COMP3173	Compiler Construction							3			
DS4023	Machine Learning							3			
COMP3063	Software Engineering								3		
COMP3253	Advanced Software Development Workshop								3		
COMP4004	Final Year Project I (COMP)									3	
II. Major Elective		l	l								
	ME04 ME05 ME06 ME07							6	6	6	3 ³
							<u> </u>	U		0	3 -
•	re Courses (36 Units)	T -	Т	Т	1			1		1	1
UCLC1003	University Chinese	3									
UCLC1013	English for Academic Purposes I	3		2							
UCLC1023 UCLC1033	English for Academic Purposes II English for Academic Purposes III			3			3				
CHI1103	Introduction to Modern Social Theories		3				3				
CHI1203	Morality and Foundations of Law		3			3					
CHI1063	Chinese Culture and Modern China						3				
CHI1073	Contemporary Chinese Society and Thoughts (Theories)			3							
CHI1183	Contemporary Chinese Society and Thoughts (Social Practice)				2						
CHI1193	Contemporary World and China ^①						2				
MT1003	Military Training		2								
WPEX1013	Emotional Intelligence			1							
WPEX2013	Experiential Arts ²						1				
WPEX2023/ WPEX2033	Voluntary Service ² , or Environmental Awareness ²					1					
UCHL1XX3	Healthy Lifestyle ²	1		1			1		L		
IV. General Educa	tion Courses (18 Units)	1	1	1	1			1		1	1
Level 1	History and Civilization ²					3					
Foundational	Quantitative Reasoning ²	3									
Courses	Values and the Meaning of Life ^②			3							
Level 2											
Interdisciplinary	Culture, Creativity and Innovation [®] , or Science,							3	3		
Thematic Courses	Technology and Society [®] , or Sustainable Communities [®]										
Level 3	Service-Learning Course [®] , or Service Leadership										
GE Capstone	Education Course [©] , or Experiential Learning Course [©] ,										3
Courses											3
	or Interdisciplinary Independent Study [®]										
V. Free Elective Co											
FE01 FE02 FE03 FE04 FE05 FE06						3		6	3	6	
	Total Units: 147	19	5	20	2	19	22	21	18	15	6

 $^{^{\}textcircled{1}}$ This 2-unit course requires student to attend at least 10 lectures within his/her first two years of study.

This denotes a course category in which a list of courses may be developed for students' selection. Students are expected to refer to the Online Course Selection System for courses available under each category.

^③ Students who continue with the final year project in the second semester of Year 4 should register COMP4005 Final Year Project II (COMP) as a major elective during the Online Course Selection (or Course Add/Drop) period.

	torest (2021 conort)	Rev 20250312
Course Code	Course Title	Units
Intelligence Tech		
COMP3073	Introduction to Robotics	3
COMP3083	Numerical Computation	3
COMP3103	Design Patterns	3
COMP3123	Software Testing	3
COMP3163	Mobile Application Development	3
COMP3183	Financial Computing	3
COMP3193	Cloud Computing	3
COMP3213	Internet of Things	3
COMP3223 COMP4003	Mobile Computing	3 3
COMP4005	Theory of Computation Final Year Project II (COMP)*	3
COMP4003	Computer and Network Security	3
COMP4023	Computer Graphics	3
COMP4043	Data Mining and Knowledge Discovery	3
COMP4053	Database System Implementation	3
COMP4063	Digital Media Computing	3
COMP4073	Distributed Computing Systems	3
COMP4083	E-technology Architectures, Tools and Applications	3
COMP4093	Internet and the World Wide Web	3
COMP4103	Artificial Intelligence and Machine Learning	3
COMP4113	Computer Vision and Pattern Recognition	3
COMP4123	Information Retrieval and Search Engine	3
COMP4133	System Analysis and Design	3
COMP4143	Introduction to Web Intelligence	3
COMP4153	Quantum Finance and Intelligent Financial Trading Systems	3
COMP4163	Neural Networks and Deep Learning	3
COMP4173	Digital Image Processing	3
COMP4213	Wireless Communication and Mobile Computing	3
DS3023	Digital Logic Design	3
DS4033	Text Mining and Analytics	3
DS4053	Introduction to Bioinformatics	3
GCAP3123	Computer Technology and AI Project	3
STAT3003	Survey Sampling	3
STAT3073	Statistical Computing	3
STAT4013	Multivariate Analysis	3
Game Design Te		2
COMP3233	Video Game Programming	3
COMP4033	Computer Graphics	3
COMP4063	Digital Media Computing	3
COMP4183	Game Engine Design	3
DS3023	Multiplayer Games and Accessories Digital Logic Design	3
GCAP3123	Computer Technology and AI Project	3
MAD3033	3D Design Fundamentals	3
MAD3063	Animation	3
MAD3103	Computer Game Design	3
	Major Elective Courses	
AI3043	Bayesian Networks	3
AI3073	Introduction to Bioinformatics	3
AI3133	Natural Language Processing	3
AI3153	Human-Computer Interaction	3
AI4023	Deep Reinforcement Learning	3
BIOL2003	General Biology	3
COMP4203	Linear Systems	3
COMP4223	Deep Learning for Computer Vision	3
COMP4233	Functional Programming	3
COMP4243	Mathematical and Computing Methods	3
COMP4253	AI-Generated Content	3
COMP4263	3D Computer Vision	3
DS3053	Requirements Engineering for Data Science Projects	3
DS4073	Introduction to Data Visualisation	3
DS4083	Big Data Analytics	3
DS4093	Introduction to Recommender System	3
	Introduction to Recommender System Advanced Calculus Principles of Physics	3 3 3

^{*} Students who continue with the final year project in the second semester of Year 4 should register COMP4005 Final Year Project II (COMP) as a major elective during the Online Course Selection (or Course Add/Drop) period.