110th Academic year Tamkang university compulsory subjects for freshmen for the bachelor's degree program of the Department of Computer Science and Information Engineering (English Taught Program)

Course name			1st year		2nd year		3rd year		4th year		5th year		Remark	
		Credit	1st	2nd										
Fundamental courses (12 credits)	Foreign Language (Q)	8	2	2	2	2							and option	freshman year
	Ability of Expressing in Spoken and Written Chinese	2											Ability of Expressing in Spoken and Written Chinese Learning and Development (N) Learning and practice of clubs (K)	
	Learning in University (N)	1	1											
	Extracurricular Activities and Team-ship Development (K)	1		1										
	Classics in World Literature (L)	2											Society categories (At least 2	1.Each part from categories only can take up to 2 subjects for 4 credits.
	History and Culture (P)	2												
	Philosophy and Religion (V)	2												
	Arts Appreciation and Invention (M)	2												
General Education	Global Outlook (T)	2												
& Core Courses (14 credits)	Futures Studies (R)	2												
	Social Analysis (W)	2												
	Civil Society And Participation (S)	2												
	Information & Computer Education (O)	2												
	Global Technology Revolution (Z)	2												
	Natural Sciences (U)	2												
Other course	Physical Education	0	0	0	0	0								
	All-Out Defense Education Military Training and Nursing	0	0	0										
Campus And Commu	Campus And Community Service-Learning		0	0										

- (1) Total credits of compulsory subjects: 77 credits (including 26 credits of general education courses)
- (2) Minimum total number of credits required for elective courses in this department: 20 credits.
- (3) Total credits of other elective courses: 31 credits

Total credits for graduation: 128 credits

110th Academic year Tamkang university compulsory subjects for freshmen for the bachelor's degree program of the Department of Computer Science and Information Engineering (English Taught Program)

Course name	Credit	1st year		2nd year		3 rd year		4 th year		5 th year		Remark
		1st	2nd	1st	2nd	1st	2nd	1st	2nd	1st	2nd	
Discrete Mathematics	3	3										
Calculus	3	3										
Introduction To Computers	3	3										
Computer Programming	3	3										
Probability and Statistics	3		3									
Object Oriented Programming	3		3									
Linear Algebra	3			3								
Computer Organization	3			3								
Data Structures	3			3								
Introduction to Software Development	3			3								
Introduction To Computer Network	3				3							
Operating Systems	3				3							
Algorithms	3				3							
Database	3				3							
Open Source Practice	3				3							
Mathematics For Machine Learning	3							3				
Special Topics Lab.	3							3				
Junior Abroad	0							0				Junior students must go abroad for one academic year on his/her own expense. However, this one only applies on Taiwanese students but being optional for international and overseas Chinese students.

- (1) Total credits of compulsory subjects: 77 credits (including 26 credits of general education courses)
- (2) Minimum total number of credits required for elective courses in this department: 20 credits.
- (3) Total credits of other elective courses: 31 credits

Total credits for graduation: 128 credits

*Important matters:

- 1. The course "Exploring and Implementing Social Issues" is not a compulsory subject for foreign students, but it can still be taken. It's up to you. If not, you will have to take Social Analysis (W) categories courses.
- 2. The course" Study Abroad and International learning" is not a compulsory subject for foreign students, but it can still be taken. It's up to you. If not, you will have to take Global Outlook (T) categories courses.
- 3. The course" Team Development" is not a compulsory subject for foreign students, but it can still be taken. It's up to you. If not, you will have to finish the Learning and Practice of Club (K) plan.

Learning and Practice of Club (K):

A-Introductory courses (scheduled for the second semester of freshman year)+ B-Activity participation (participating in club activities)+ C-Activity execution (execution of community activities).

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表單編號:ATRX-Q03-001-FM210-06