111th 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		3rd year		4th year		5th year		Re	mark	
			1st	2nd											
Fundamental courses (12 credits)	Foreign Language (Q)	8	2	2	2	2							and optiona	reshman year	
	Ability of Expressing is Spoken and Written Chinese	2											-	ility of Expressing Spoken and Written inese	
	Learning in University (N)	1	1										Learning as Developme		
	Learning and Practice of Club (K) *Holistic Education students please contact their departments.	1											recognized compulsory	nd team nt. velopment is as a credit of 1 xtracurricular nd team	
	AI and Programming Language Exploring Sustainability	1	1											1.Each part from categories only can take up to 2 subjects for 4 credits. 2 2.Exploring and Implementing social issues is recognized as a compulsory course for 2 credits in social	
	Classics in World Literature (L)	2											Humanity categories (At least 2 credits) Society categories (At least 2 credits) Science categories		
	History and Culture (P)	2													
	Philosophy and Religion (V)	2													
	Arts Appreciation and Invention (M)	2													
General Education & Core Courses (14 credits)	Global Outlook (T) *Holistic Education students please contact their departments.	2													
	Futures Studies (R)	2												analysis.	
	Social Analysis (W) *Holistic Education students please contact their departments.	2												2 3. study abroad and international learning are recognized as 2 compulsory credits for Global Outlook	
	Civil Society And Participation (S)	2													
	Information & Computer Education (O)	2													
	Global Technology Revolution (Z)	2											(At least 2 credits)		

Course name		Credit	1 st year		2nd year		3rd year		4th year		5th year		Remark	
	_		1st	2nd	1st	2nd	1st	2nd	1st	2nd	1st	2nd		
	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 Community Service-Learning		0	0	0										
Exploring and Imp	plementing Social Issues	2	1	1									It is a commo compulsory s Holistic Edu- recognized a Categories ir Core Courses credits. Reco limited to stu Holistic Edu-	subject in cation. It's s Science a General s for 2 egnition is dents from
Study Abroad and International Learning		2			2								It is a commo compulsory? Holistic Edu- recognized a Outlook in G Courses for 2 Recognition students from Education.	subject in cation. It's s Global deneral Core credits. is limited to
Team Development		1							0	1			It is a commo compulsory? Holistic Edurecognized a Extracurricul Activities an Team Developmen Core Course; year course, for 0 credit, 2 for 1 credit. 1	subject in cation. It's s lar d tin General s, academic 1st semester 2nd semester Recognition students from

- (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

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
Course nume		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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