Computer Science Department Credit Requirement Table for Bachelor Degree in 2018(107)

Туре		Course Name		Credits		Remarks			
Туре				I Sem II Sem		Remarks			
Command		College Chinese		2					
		College English		8		Students who did not pass the English Proficiency Exam in the university's standard should take "Advanced English" course, which is lectured by language center			
		General Education	Core	0-12		Choose 4 fields among 6 fields and take 1 course in each selected field.			
			Elective			At least 2 credits in Social Sciences and humanities respectively and the maximum is 10 credits			
			Total						
		Physical Education		0		6 semesters required			
		Student Service				2 semesters required, can be replaced by "Service Learning"			
		Conduct		0		Must pass every semesters			
Department Required Courses (52 credits)	Fundament al Required Course (30 credits)	General Physics	3	3					
		Calculus (I \ I	3	3					
		Introduction to Programming I (CS1355)		3					
		Introduction to Programming II (CS1356)		3					
		Data Structures(	3						
		Linear Algebra ( CS2334)		3					
		Probability( CS3332)		3					
		Discrete Mathematics (CS2336)		3					
	Core Required Courses (22 credits)	Digital Logic Design ( CS2102)		3					
		Hardware Lab ( CS2104)		3					
		Software Lab. ( CS2410)		3					
		Computer Architecture (CS4100)		3					
		Design and Analysis of Algorithms (CS4311)		3					
		Operating Systems( CS3423)		3					
		System Integration Implementation I ( CS3901)		2					
		System Integration Implementation II (CS3902)		2					

Professional Elective Courses (36 credits)		(l) All students should choose one course in each category at least (take five courses)  (2) Students in ECS group (甲) should choose three courses in cat. A or cat. B at least.	15	Cat. A	Cat. B	Cat. C	Cat. D	
	Elective Courses for Breadth and Depth Requirements			Ordinary Differenti al Equations (EECS203 0) Signal and Systems (CS2505) Scientific Computation s (CS3330) Formal Languag e (CS3371 )	Circuits and Electronics I (CS2100) Introduction to Integrated Circuit Design (CS3120) Introduction to Embedded Systems (CS4101) Compiler Design (CS3404) Digital System Design (CS4125)	Introduction to Computer Networks (CS3212) Software Engineering (CS4461) Cryptography and Network Security (CS3305) Introduction to parallel computing (CS4111)	Introduction to Database Systems (CS4710) Introduction to Artificial Intelligence (CS4601) Introduction to Multimedia (CS3570) Introduction to machine learning (CS4602)	
	EECS Prof	21	Please consult with advisor about related professional field(Courses No. with EE \ CS \ ISA \ COM)					
Other Electives (12 credits)			10	Please consult with advisor				
Minimum Credits for Bachelor Degree			128					
Notes 2. There will be		o CS department courses ma 12 more total credits for For suing a Double Major in CS of es"	rm 5 students	s. Please refer t	to the Departm	ent Office for		