Computer Science Department Credit Requirement Table for Bachelor Degree in 2017(106)

Туре		Course Name		Credits I Sem II Sem		Remarks		
Courses		College Chinese		2				
		College English		6		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	0.10		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				Must pass every semesters		
Department Required Courses (52 credits)	Fundament al Required Course (30 credits)	General Physics	3	3				
		Calculus (I 、 II)		3	3			
		Introduction to Programming I (CS1355)		3				
		Introduction to Programming II (CS1356)		3				
		Data Structures(CS2351)		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				

Professiona 1 Elective Courses (36 credits)			15	Cat. A	Cat. B	Cat. C	Cat. D
	Elective Courses for Breadth and Depth Requirements	(1) 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.		Engineering Mathematics (CS3334) Signal and Systems (CS2505) Scientific Computation s (CS3330) Formal Language (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) Cryptograp hy and Network Security (CS3305) Introductio n to parallel computing (CS4111)	Introduction to Database Systems (CS4710) Introduction to Artificial Intelligence (CS4601) Introduction to Multimedia (CS3570) Introduction to machine learning (CS4602)
	EECS Profe	21	Please consult with advisor about related professional field(Courses No. with EE \ CS \ ISA \ COM)				
	Other Elective (12 credits	12	Please consult with advisor				
Minir	num Credits for B	128					
1. Please refer to CS department courses map for information about professional elective courses.  2. There will be 12 more total credits for Form 5 students. Please refer to the Departme Office for more details.  3. Students pursuing a Double Major in CS department must fulfill the credit requiremen "Professional Electives courses"							