

Computer Science Department Credit Requirement Table for Bachelor Degree in 2015(104)

Type	Course Name		Credits		Remarks	
			I Sem	II Sem		
University Required Courses (28 Credits)	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	10-15		Choose 5 fields among 7 fields and take 1 course in each selected field.	
		Elective	8-10		At least 2 credits in Social Sciences and humanities respectively and the maximum is 10 credits	
		Total	20			
	Physical Education		0		6 semesters required	
	Student Service		0		2 semesters required, can be replaced by "Service Learning"	
	Conduct				Must pass every semesters	
Department Required Courses (50 credits)	Fundamental Required Course (30 credits)	General Physics (I · II)		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 (20 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)		1		
System Integration Implementation II (CS3902)		1				

Professional Elective Courses (36 credits)	Cat. ECS.	Elective Courses for Breadth and Depth Requirements	21	Engineering Mathematics (CS3334) Circuits and Electronics I (CS2100)	Signal and Systems (CS2505) Scientific Computation (CS3330) Formal Language (CS3371)	Cat. A (chose one course at least)	Cat. B(chose two courses at least)	Cat. C(chose two courses at least)
		EECS Professional Electives	15	Please consult with advisor about related professional field(Courses No. with EE · CS · ISA · COM)and LS1103 Introduction to Life Science				
	Cat. CS.	Elective Courses for Breadth and Depth Requirements	15	Engineering Mathematics (CS3334) Signal and Systems (CS2505) Scientific Computations (CS3330) Formal Language (CS3371)	Circuits and Electronics I(CS2100) Introduction to Integrated Circuit Design (CS3120) Introduction to Embedded Systems (CS4105) Compiler Design (CS3404)	Cat. A (chose one course at least)	Cat. B (chose two courses at least)	Cat. C (chose two courses at least)
		EECS Professional Electives	21	Please consult with advisor about related professional field(Courses No. with EE · CS · ISA · COM)and LS1103 Introduction to Life Science				
	Other Electives (14 credits)		14	Please consult with advisor				
Minimum Credits for Bachelor Degree			128					

Notes	<ol style="list-style-type: none"> Please refer to CS department courses map for information about professional elective courses. There will be 12 more total credits for Form 5 students. Please refer to the Department Office for more details. Students pursuing a Double Major in CS department must fulfill the credit requirement of "Professional Electives courses" Students in different group(甲、乙) should refer to different requirement (ECS and CS).
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