Computer Science Department Credit Requirement Table for Bachelor Degree in 2016(105)

Туре		Course Name		Credits		Remarks			
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			
			Core	10-15 8-10		Choose 5 fields among 7 fields and take 1 course in each selected field.			
		General Education	Elective			At least 2 credits in Social Sciences and humanities respectively and the maximum is 10 credits			
			Total	20	0				
		Physical Educ	Physical Education		,	6 semesters required			
		Student Service		0	)	2 semesters required, can be replaced by "Service Learning"			
		Conduct				Must pass every semesters			
		General Physics	General Physics (I   II)		3				
		Calculus (I 、 II)		3	3				
		Introduction to Programming I (CS1355)		3					
	Fundament al Required	Introduction t II (CS1356)	Introduction to Programming II (CS1356)		;				
	Course (30 credits)	Data Structure	Data Structures(CS2351)		;				
		Linear Algebra (CS2334)		3	;				
		Probability(CS3332)		3	;				
Department Required Courses (52 credits)		Discrete Mathematics (CS2336)		3	j				
	Core Required Courses (20 credits)	Digital Logic Design (CS2102)		3					
		Hardware Lab (CS2104)		3					
		Software Lab. (CS2410)		3					
		Computer Architecture (CS4100)		3					
		Design and An Algorithms(C	nalysis of S4311)	3					
		Operating Sys	Operating Systems(CS3423)		;				
		System Integr Implementatio	ration on I (CS3901)	2					
		System Integr Implementatio	ation on II (CS3902)	2					

Professiona 1 Elective Courses (36 credits)	Cat. ECS.	Elective Courses for Breadth and Depth Requirements	21	Required Courses Engineering Mathematics (CS3334) Circuits and Electronics I	Cat. A (chose one course at least) Signal and Systems (CS2505) Scientific Computation	Cat.B(c ose two courses a least) Circuits ar Electronic II(CS310 Introduc n to Integrate Circuit Design (CS3120) Introduc n to	ch Cat.C(chos e two t courses at least ) d s 1) Introduction to Database Systems (CS4710) Introduction to Computer tio Networks (CS3212)		
				(CS2100)	(CS3350) Endo Formal Syste Language (CS41 (CS3371) Com Desig (CS3 Digita Syste Desig (CS4.		to Multimedia (CS3570) Cryptography and Network Security (CS3305)		
		EECS Professional Electives	15	Please consult with advisor about related profess ield(Courses No. with EE \CS \ISA \COM) and introduction to Life Science			ted professional COM) and LS1103		
		Elective Courses for Breadth and Depth Requirements	15	Cat. A Cat. (chose one course (chose two at least) courses at 1		t. B o t least)	Cat. C (chose two courses at least)		
	Cat. CS.			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) Eng (CS C an Se		Introduction to Database Systems (CS4710) Introduction to Computer Networks (CS3212) Introduction to Artificial Intelligence (CS4601) Introduction to Multimedia (CS3570) Software Engineering (CS4461) Cryptography and Network Security (CS3305)		
		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 Electiv (12 credits)	12	Please consult with advisor						
Minir	num Credits for Ba	achelor Degree	128						
<ol> <li>Please refer to CS department courses map for information about professional elective courses.</li> <li>There will be 12 more total credits for Form 5 students. Please refer to the Department Office for more details.</li> <li>Students pursuing a Double Major in CS department must fulfill the credit requirement of "Professional Electives courses"</li> </ol>									
	4. Students in	n different group(甲、	乙) should n	efer to differ	ent require	nent (E	CS and CS).		