Department of Computer Science (CS Program)

2016/2017 Academic Year (AY) (May 2016 Revision)

Required courses for CS Program										
Course Title	Required			AY2		AY3		AY4		D 1
	Credits	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Remarks
物理(一)(二)			1 0				1 0			
Physics (I)(II)										
普通生物(一)(二)	6	3	3							Pick 1 out of 3 (Note 1)
General Biology (I)(II)										
化學(一)(二)										
Chemistry (I)(II)					-					
微積分(一)(二)	8	4	4							
Calculus(I)(II)					-					
線性代數	3	3								
Linear Algebra										
計算機概論與程式設計		3								
Intro. to Computers and	3									
Programming										
資料結構與物件導向程式設計										
Data Structures and Object-oriented	3		3							
Programming										
離散數學	3		3							
Discrete Mathematics					-					
數位電路設計	3		3							
Digital Circuit Design										
機率	3			3						
Probability										
演算法概論	3			3						
Intro. to Algorithms										
作業系統概論	3					3				
Intro. to Operating Systems										
正規語言概論	3				3					
Intro. to Formal Language										
計算機組織	3				3					
Computer Organization										
資訊工程專題(一)(二)							_	_		
Computer Science and Engineering	4						2	2		
Projects(I)(II)										
計算機網路概論	3			3						
Intro. to Computer Networks	_			-						
微處理機系統實驗	2					2				
Microprocessor System Lab.	_									
編譯器設計概論	3					3				
Intro. to Compiler Design						_				
導師時間	0	0	0							(Note 2)
Mentor's Hours	, j									(= : = (= / = /)
服務學習(一)	0		0							
Service Learning I										
服務學習(二)	0			0						

Service Learning II						
資訊工程研討	0			0		
Computer Science Seminars	U			U		
基礎程式設計 Basic Programming	0		0			Pass=Passing Basic Computer Programming Exam (Note 3)
Total	56					

Graduation requirements: 128 credits (English-medium courses: 8 credits).

- Note 1: 56 credits (CS Program required) + 32 credits (Elective Professional Courses) +12 credits (Free Elective Courses)= 100 credits (at least).
- Note 2: Elective Professional Courses: all elective courses offered by the Dept. of CS (including elective courses in both undergraduate and graduate programs).
- Note 3: Free Elective Courses: all elective courses offered by the Dept. of CS and other department (Not including the courses of center of general education, Service Learning, Physical Education, Military Training office, health services).
- 1. Important prerequisite on course selection:
 - (1) Data Structures and Object-oriented Programming [Spring of AY 1]
 - → Pass the aforementioned course before taking Intro. to Algorithm [Fall of AY 2].
 - (2) Basic Programming [Spring of AY 2]
 - →Pass the aforementioned course before taking Computer Science and Engineering Projects (I) [both Fall and Spring of AY 3] and Computer Science and Engineering Projects (II) [Spring of AY 3 and Fall of AY 4].
 - → Pass the aforementioned course before taking Intro. to Compiler Design [Fall of AY 3].
 - →Pass the aforementioned course before taking <u>Introduction to Embedded Systems Design and Implementation</u> [Spring of AY 3].
 - → Pass the aforementioned course before taking Intro. to Network Programming [Fall of AY 3] and Intro. to Computer Graphics [Fall of AY 3]
 - (3) Computer Science and Engineering Projects (I) [both Fall and Spring of AY 3]
 - → Pass the aforementioned course before taking Computer Science and Engineering (II) [Spring of AY 3 and Fall of AY 4].
- 2. Students must complete one professional, English-medium course offered by the Department of CS.

(Note: Projects or seminars are not included)

- Note 1: Students who complete "Physics (I) and (II)", which are 8 credits in total, may waive 2 credits from Elective Professional Courses.
- Note 2: All the undergraduate freshmen are required to take "Mentor Hour" every semester (0 credits) and pass two courses before graduation.
- Note 3: To pass "Basic Programming", students must pass the "Basic Computer Programming Exam".