

Department of Computer Science (CS + EE Program)

2014/2015 Academic Year (AY) (May 2014 revision)

Course Title	Required Credits	AY1		AY2		AY3		AY4		Remarks
		Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	
微積分(一)(二) Calculus(I)(II)	8	4	4							
線性代數 Linear Algebra	3	3								
計算機概論與程式設計 Intro. to Computers and Programming	3	3								
物件導向程式設計 Object-Oriented Programming	3		3							
離散數學 Discrete Mathematics	3		3							
資料結構 Data Structures	3			3						
數位電路設計 Digital Circuit Design	3		3							
數位電路實驗 Digital Circuit Lab.	2			2						
機率 Probability	3			3						
演算法概論 Intro. to Algorithms	3				3					
作業系統概論 Intro. to Operating Systems	3					3				
正規語言概論 Intro. to Formal Language	3				3					
計算機組織 Computer Organization	3				3					
資訊工程專題(一)(二) Computer Science and Engineering Projects(I)(II)	4						2	2		
計算機網路概論 Intro. to Computer	3					3				
微處理機系統實驗 Microprocessor System Lab.	2					2				
導師時間 Mentor's Hours	0	0	0							(Note 1)
基礎程式設計 Basic Programming	0				0					(Note 2)
物理(一)(二) Physics (I)(II)	6	3	3							Pick 1 out of 3 (Note 3)
普通生物(一)(二) General Biology (I)(II)										
化學(一)(二) Chemistry (I)(II)										

Graduation Requirements: 128 credits

1. 58 credits (Common Courses) + 12 credits (CS+EE Program) + (CS+EE Program Secondary Core Courses + Core Courses from the other 2 programs) = 79 credits (at least).
2. Elective Professional Courses: students need to take elective courses from the Dept. of CS (including elective courses from undergraduate and graduate program) = 12 credits

A. Important prerequisite on course selection:

(1) **Introduction to Computers and Programming [Fall of AY 1] and Object-Oriented Programming [Spring of AY 1]**

→Pass the aforementioned courses before taking **Data Structures [Fall of AY 2] and Introduction to Algorithm [Spring of AY 2]**.

(2) **Data Structures [Fall of AY 2]**

→Pass the aforementioned course before taking **Intro. to Algorithm [Spring of AY 2]**.

(3) **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 **Hardware-Software Co-design and Implementation [Spring of AY 3]**.

(4) **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]**.

B. Students must complete one professional, English-medium course offered by the Department of CS.
(**Note: Projects or seminars are not included**)

Note 1 : All the undergraduate freshmen are required to take “Mentor Hour” every semester.

Note 2 : To pass “Basic Programming”, students must pass the “Basic Computer Programming Exam”.

Note 3 : Students who complete “Physics (I) and (II)”, which are 8 credits in total, may waive 2 credits from other elective courses.

Note 4 : Students who select elective courses from other Departments and Colleges must fill out an application form.

Application would be reviewed by the Chairman of the Dept. of CS.

Any application after the deadline would not be accepted.