Department of Computer Science (NME Program)

2015/2016 Academic Year (AY) (May 2015 Revision)

Course Title	Required	equired AY1		AY2		AY3		AY4		D 1	
	Credits	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Remarks	
物理(一)(二)											
Physics (I)(II)											
普通生物(一)(二)		2	2							Pick 1 out of 3	
General Biology (I)(II)	6	3	3							(Note 3)	
化學(一)(二)											
Chemistry (I)(II)											
微積分(一)(二)	8	4	4								
Calculus(I)(II)	0	4	4								
線性代數	3	3									
Linear Algebra	3	<u> </u>									
計算機概論與程式設計											
Intro. to Computers and	3	3									
Programming											
物件導向程式設計	3		3								
Object-oriented Programming	3		3								
離散數學	3		3								
Discrete Mathematics	J		3								
資料結構	3			3							
Data Structures											
數位電路設計	3		3								
Digital Circuit Design			3								
數位電路實驗	2			2							
Digital Circuit Lab.	_										
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)											
導師時間											
न मा म्हा । Mentor's Hours	0	0	0							(Note 1)	
income of income											
資訊工程研討											
Computer Science Seminars	0					0					

基礎程式設計 Basic Programming	0			0				Pass=Passing Computer Programmin (Note 2)	
計算機網路概論 Intro. to Computer Networks	3		3					Network	
網路程式設計概論 Intro. to Network Programming	3				3			track course	Pick 1
網路通訊原理 Principles of Network	3			3				(9 credits)	out of
計算機圖學概論 Intro. to Computer Graphics	3				3			Multimedia	
影像處理概論 Intro. to Image Processing	3					3		track course	5)
數值方法 Numerical Methods	3			3				(9 credits)	
Total	62								

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

Note 1:62 credits (NME Program) +26 credits (Elective Professional Courses) =88 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 program)

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 either one of 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 Network Programming [Fall of AY 3] and Intro. to Computer Graphics [Fall 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)

two courses before graduation.

- 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 before the deadline of course enrollment. The application must be approved by the Chairman of the Dept. of CS for the credits to be accepted as part of the graduation credits. Any application after the deadline would not be accepted.
- Note 5: Pick 1 out of 2 track (Network track and Multimedia track), and pass all courses of the track.