

Intro. to Computer Networks 網路程式設計概論	3					3				track course (9 credits)	out of 2 track (Note 4)
Intro. to Network Programming 網路通訊原理	3				3						
Principles of Network Communications	3					3			Multimedia track course (9 credits)		
Intro. to Computer Graphics 計算機圖學概論	3						3				
Intro. to Image Processing 影像處理概論	3							3			
Numerical Methods 數值方法	3				3						
Total	57										

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

Note 1: 57 credits (NME Program) + 31 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 program)

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 **Introduction to Embedded Systems Design and Implementation [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”.

Note 4: Pick 1 out of 2 track (Network track and Multimedia track), and pass all courses of the track.