Hankuk University of Foreign Studies

2025 Summer Session

CSC 260 Introduction to Low-Level Programming

and Computer Organization

Course Outline

Course Code: CSC 260

Instructor: Dr. Suman Saha

Home Institution: Pennsylvania State University

Office Hours: By Appointment

Email: szs339@psu.edu

Credit: 4

Class Hours:

This course will have 60 class hours, including 32 lecture hours, professor 8 office hours, 8-hour TA discussion sessions, 4-hour review sessions, 8-hour extra classes.

Course Description：

This course explores the art and methods of systems programming, using the C programming language. Topics include machine-level representation of data and programs, development tools, OS command and shell basics, file I/O; the computer architecture at assembly language level; computer organization.

Required Course Materials：

- Computer Systems: A Programmer's Perspective by Bryant and O'Hallaron
- Pointers with C by Kenneth Reek

Seoul Campus   02450 서울특별시 동대문구 이문로 107   tel 02.2173.2093   fax 02.960.7898
107, Imun-ro, Dongdaemun-gu, Seoul, 02450, Korea
Global Campus   17035 경기도 용인시 처인구 모현면 외대로 81   tel 031.330.4114   fax 031.333.1708
81, Oedae-ro, Mohyeon-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, 17035, Korea

Grading:

Category	Percentage
Programming Assignments	35%
Written Assignments	10%
Midterm	20%
Final Exam	35%

Grading System (1 ~ 100)

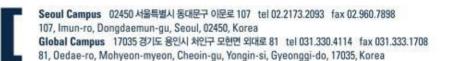|	
A+ : 96 - 100	A : 91 - 95
B+ : 86 - 90	B : 81 - 85
C+ : 76 - 80	C : 71 - 75
D+ : 66 - 70	D : 60 - 65
F : 0 - 59	
Pa : Pass	Fa : Fail

Course Schedule

WEEK 1

- Session 1: Transforming from Java to C, C syntax, working in Unix

- Session 2: Transforming from Java to C, C syntax, working in Unix (Continue)

- Session 3: C Pointers, memory management

- Session 4: Dynamic data structure with C

    (Written Assignment 1 and Programming Assignment 1)

WEEK 2

- Session 1: I/O operations, bit operations, function pointers, command line argument

    passing

- Session 2: Debugging and Use of Makefile

Seoul Campus 02450 서울특별시 동대문구 이문로 107 tel 02.2173.2093 fax 02.960.7898
107, Imun-ro, Dongdaemun-gu, Seoul, 02450, Korea
Global Campus 17035 경기도 용인시 처인구 모현면 외대로 81 tel 031.330.4114 fax 031.333.1708
81, Oedae-ro, Mohyeon-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, 17035, Korea

- Session 3: Computer System Organization

- Session 4: Midterm Exam

WEEK 3

- Session 1: Representation and manipulation of information

- Session 2: Representation and manipulation of information (Continue)

- Session 3: Machine level representation of programs

- Session 4: Machine level representation of programs (Continue)

    (Written Assignment 2 and Programming Assignment 2)

WEEK 4

- Session 1: Machine level representation of programs (Continue)

- Session 2: Programming with an assembly language

- Session 3: Linking (static linking, relocatable object files, symbols. symbol tables, symbol

    tables, symbol resolution, relocation, loading executable files)

- Session 4: Final Exam