CS230 System Programming (Fall 2022)

Course: CS230 System Programming

Instructor: Jongse Park

E3-1 4403

Phone: 350-3580

jspark@casys.kaist.ac.kr

Teaching

Class Meetings

TBA

Assistants

TTh 14:30-15:45PM

Textbook Computer Systems: A Programmer's Perspective, Third Edition, Prentice

Hall, 2011, Randal E. Bryant and David R. O'Hallaron

Auxiliary textbook (not required): Brian W. Kernighan and Dennis M. Ritchie,

The C Programming Language, Second Edition, Prentice Hall, 1988

perspective. This course serves as a foundation for courses on computer

organization, operating systems, compilers, and networks.

Prerequisites Basic understanding of programming (CS101)

Assignments There will be about 6 or 7 programming assignments. The assignments are the

most important part of this course. All the assignments are single-student

assignments.

Evaluation Mid-term and Final: 60%

Assignments: 35% Attendance: 5%

Late submission policy

• Assignments will be due at 11:59pm on the specified due date.

• You will lose 30% of the grade on the first late day. After the first late day,

your submission will not be accepted.

Academic conduct

You are encouraged to discuss course material with your classmates. However, collaboration on assignments is prohibited. Academic misconduct will have a heavy penalty.

 Possession and/or use of another group's code is strictly prohibited. It is also the student's responsibility to protect his or her work from unauthorized access.

• We will be using a sophisticated automated program to correlate projects to find copied codes.

Fall 2022 Tentative Schedule

Lecture	Торіс
1	Introduction
2	Bits, Bytes, and Integers
3	Floating Point
4	Machine-level Programming I: Basics (1/2)
5	Machine-level Programming I: Basics (2/2)
6	Machine-level Programming II: Control (1/2)
7	Machine-level Programming II: Control (2/2)
8	Machine-level Programming III: Procedure (1/2)
9	Machine-level Programming III: Procedure (2/2)
10	Machine-level Programming IV: Composite Data Types (1/2)
11	Machine-level Programming IV: Composite Data Types (2/2)
12	Machine-level Programming V: Advanced Topics (1/2)
13	Machine-level Programming V: Advanced Topics (2/2)
14	Linking (1/2)
	Midterm Exam Week
	Midterm Exam Week
15	Linking (2/2)
16	Exceptional Control Flow: Exceptions and Processes (1/2)
17	Exceptional Control Flow: Exceptions and Processes (2/2)
18	Exceptional Control Flow: Signals (1/2)
19	Exceptional Control Flow: Signals (2/2)
20	Virtual Memory (1/2)
21	Virtual Memory (2/2)
22	Dynamic Memory Allocation (malloc) (1/2)
23	Dynamic Memory Allocation (malloc) (2/2)
24	System-Level I/O
25	Network Programming (1/2)
26	Network Programming (2/2)
27	Concurrent Programming
28	Synchronization
	Final Exam Week
	Final Exam Week