

# EE309

# Lecture 1: Introduction

INSU YUN (윤인수)

School of Electrical Engineering, KAIST

# Course Overview

- Objective: Learn system programming techniques!
- Lecturer: Insu Yun (윤인수)
  - Assistant Professor at EE
  - Adjunct Professor at Graduate School of Information Security (GSIS)
  - Office Hours: Wednesday 10:30-11am (online) or by appt
- Teaching Assistants
  - Eunkyoo Lee: TODO
  - Dongok Kim: TODO
  - Office Hours : TODO
- Website: <https://teemo.kaist.ac.kr/ee309/2023/>
- Mailing list: ee309@googlegroups.com
  - Use email for individual appointments and/or grade concerns.
  - Please use piazza for other questions.



# Lecture in hybrid

- Mon/Wed 9:00-11:30am

- Offline lecture: N1 113

- Online lecture (Zoom):

- <https://kaist.zoom.us/j/82129939164?pwd=czJpbmtYd1A5NXFIZ2c3Y2RPY0xxUT09>

- Youtube: [https://www.youtube.com/playlist?list=PLpYYZoHf-Y9\\_MFvOL3U0u8yK9tbYq3O89](https://www.youtube.com/playlist?list=PLpYYZoHf-Y9_MFvOL3U0u8yK9tbYq3O89)

- *Tip: Please choose an offline lecture as your first option*



# (Strong) Prerequisite

- EE209 Programming Structures for Electrical Engineering
  - Or CS230: System Programming
- Experience in programming
  - C programming
  - Familiarity with Linux
- *If not, sorry but you should take EE209 first ☹*

# Piazza

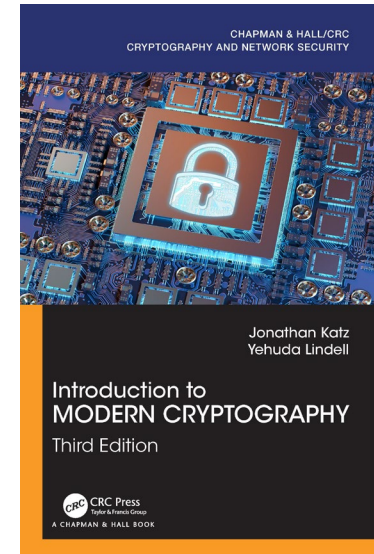
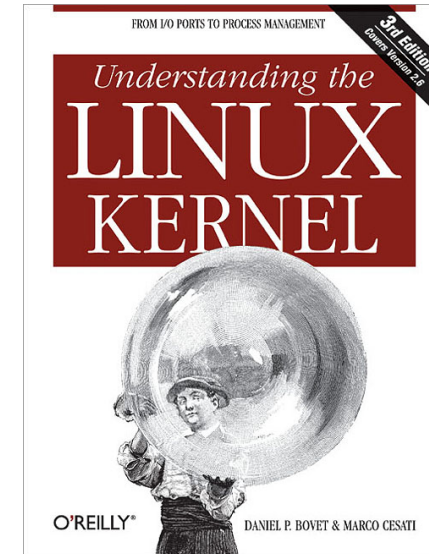
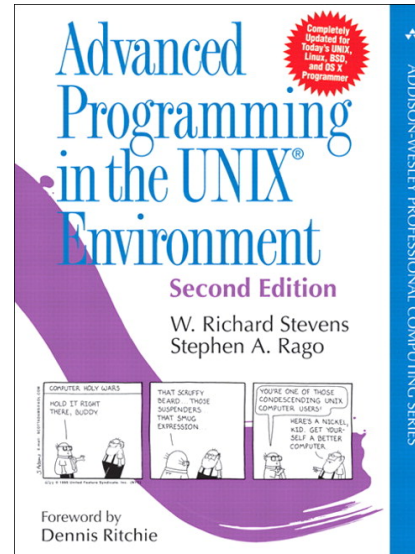
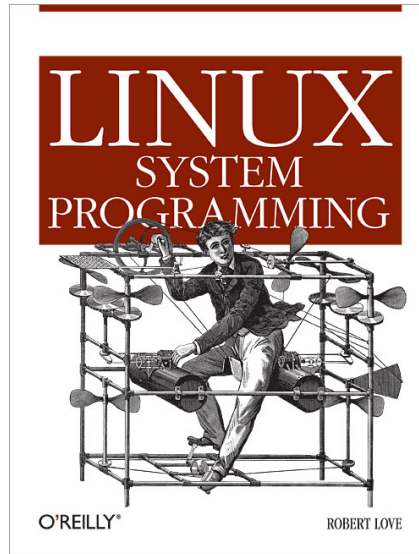
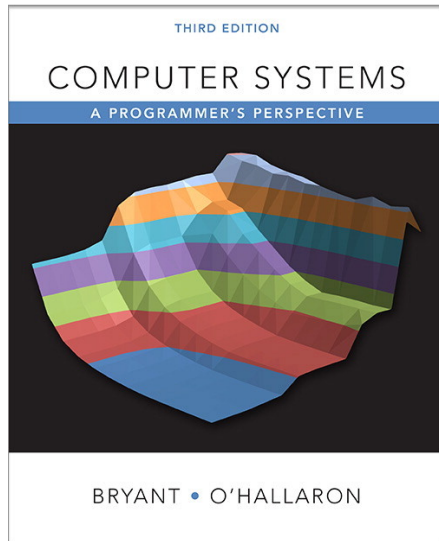
- Please sign up for Piazza and join EE309 Piazza.
  - <https://piazza.com/kaist.ac.kr/fall2023/ee309>
- All announcements will be posted on Piazza.
  - Do not post questions on KLMS.
- Please post all your questions on Piazza.

# Rules for Piazza

- Please use English to post your questions.
  - If it is difficult, you can use Korean to ask your questions.
  - However, I will ask the TA's to respond in English.
- Ask any question
  - There is no such thing as a dumb question.
  - Many students will have the same questions.
- If you need hands-on help (e.g., debugging), come to office hour
- Remember that we are here to help you 😊

# Textbooks

- Main
- References



# Grading policy (tentative)

- No midterm
- Final Exam (20%)
- Attendance (10%)
- Assignments (70%, 14% each)
  - Directory Listing
  - Memory management
  - Buffer overflow
  - Web server
  - Security



# Project: Heart of this course!

- **Development language – C only**
- Platform – Linux (Ubuntu)
- Compiler – GCC

# For CS students

- It is not a good idea to take both EE309 and CS230
  - There will be a lot of overlap
  - (EE309 will handle certain topics in more advance though)
  - So please consider to take this course if you already took or have plan to take CS230
  - Don't waste your time!
- CS & Non-CS will be graded independently

# Changes

- Topics (+8 sub-topics)
  - EE209 Review
  - File I/O
  - Files and directories
  - Allocation
  - Buffer overflow
  - Process & Thread
  - **Network programming**
  - **Concurrent programming**
  - **Security (NEW)**
- Project (**3->5**)
  - **Directory listing (NEW)**
  - Memory management
  - **Buffer overflow (NEW)**
  - **Web server (NEW)**
  - **Security (NEW)**

# Rule

- All course projects are to be carried out individually.
- Not allowed to share code
- Cannot copy code from the Internet (or AI)
- Any violations of these policies will be considered a violation of ethical conduct
  - > you will get an 'F' grade

# Grace period

- All projects due @ 11:59pm on the due date.
- You can submit your assignment late with the following penalty.
  - 95% of the full credit up to 1 hour late,
  - 80% of the full credit up to 24 hours late,
  - 0% of the full credit beyond 24 hours late.
- **Important:**
  - Note that we do not accept late submission for the **last assignment (assignment 5)**.

# Coding style

- Make sure your code is
  - clearly structured
  - well-formatted
  - uses a consistent coding style (indentation, placement of braces, etc.)
  - variables, functions etc. are sensibly named
  - comments are used only when necessary, explaining the why, not the what