



# Advanced Operating Systems

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## Course Info

- **Class Hours** 9:00am-12:00pm Wednesday
- **Classroom** CSIE Seminar Room
- **Textbook** [Operating Systems: Three Easy Pieces](#)

## Tentative Schedule

Week	Date	Topic
01	09/04	02 Introduction
02	09/11	04 Processes
03	09/18	05 Process API
04	09/25	06 DirectExecution
05	10/02	07 CPU Scheduling
06	10/09	08 Multi-Level Feedback Queue
07	10/16	09 Lottery Scheduling
08	10/23	13 Address Spaces and 14 Memory API
09	10/30	Midterm
10	11/06	15 Base And Bound
11	11/13	16 Segmentation
12	11/20	17 FreeSpace Management
13	11/27	18 Paging
14	12/04	19 Translation Lookaside Buffer
15	12/11	20 Advanced Page Tables
16	12/18	Final Exam

\*Note:

1. The schedule is tentative and will be adjusted according to the actual teaching situation.
2. There will be 6 hours of asynchronous online learning materials which are as follows:
  - [CrashCourse, Computer Science Preview\(40 episodes\)](#) Selected episodes are as follows:
    - #1, Early Computing
    - #2, Electronic Computing
    - #3, Boolean Logic & Logic Gates
    - #4, Representing Numbers and Letters with Binary

- #5, How Computers Calculate - the ALU
- #6, Registers and RAM
- #7, The Central Processing Unit (CPU)
- #8, Instructions & Programs
- #9, Advanced CPU Designs
- #10, Early Programming
- #11, The First Programming Languages
- #12, Programming Basics: Statements & Functions
- #18, Operating Systems
- #19, Memory & Storage
- #22, Keyboards & Command Line Interfaces

Every student has to watch the videos above and submit the declaration no later than 10/30.

## Grading Policy

- Homework 25%
- Programming Projects 25%
- Midterm Exam(10/30) 25%
- Final Exam(12/18) 25%
- Class Participation (Bonus +10%)

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**CSIE, NPTU**

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