

Operating Systems

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Contents

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Introduction

❖ **What is an Operating System?**

- The concepts of Operating System
- The techniques, algorithms, and mechanisms of dealing with computer hardware

❖ **Why is it important?**

- The foundation and principle of operating computer hardware

❖ **How does it work?**

- Process management
- Memory management
- Storage management

Class Structure



Ch3. Processes

Ch4. Threads

Ch5. Process
Synchronization

Ch6. CPU Scheduling

Ch7. Deadlocks

Ch8. Main Memory

Ch9. Virtual Memory

Ch 10. Mass-Storage
Structure

Ch 11. File-System
Interface

Ch 12. File-System
Implementation

Ch 13. I/O Systems

Evaluation

- ❖ **Midterm Exam: 35%**
- ❖ **Final Exam : 35%**
- ❖ **Assignments : 15%**
 - 1 or 2 assignments
- ❖ **Quiz : 10%**
- ❖ **Attendance : 5%**

Class Schedule

Week	Subject	Style	Assignment
1	CH0. Course Overview CH1. Introduction to Operating Systems	Lecture	
2	CH3. Processes PART I	Lecture	
3	CH3. Processes PART II	Lecture	
4	CH4. Threads	Lecture	
5	CH5. Process Synchronization PART I	Lecture	
6	CH5. Process Synchronization PART II	Lecture	
7	CH6. CPU Scheduling	Lecture	
8	Midterm Exam	Exam	
9	CH7. Deadlocks	Lecture	Assignment #1
10	CH8. Main Memory	Lecture	
11	CH9. Virtual Memory	Lecture	
12	CH10. Mass-Storage Structure	Lecture	
13	CH11. File-System Interface	Lecture	
14	CH12. File-System Implementation	Lecture	
15	CH13. I/O Systems	Lecture	
16	Final Exam	Exam	

Miscellaneous

❖ **Textbook**

- Operating System Concepts, 10th edition
- Author: Abraham Silberschatz, Peter B. Galvin, Greg Gagne

❖ **Office Hours**

- 수업 직후

❖ **Instructor**

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