

資管系作業系統

93 學年度第二學期 Syllabus

授課老師 黃三益教授
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上課時間 2:10-5:00pm Mon
TA Office Hours: place 3024-1 Time TBA

上課地點 管3017

教科書 *Operating System Concepts with Java*, Silberschatz, Galvin, and Gagne, 6th ed, Addison Wesley Publishing Company.

Prerequisites 資管系大三 or those with equivalent background

Homeworks There will be FOUR homeworks that are needed to hand in.

Projects There will be ONE programming project and ONE presentation project. The programming project is done by each individual, whereas the presentation project is conducted in a group basis. Each group consists of 4 students. The topics of the presentation are listed below:

1. PROCESS MANAGEMENT (in Linux, FreeBSD, and Windows XP)
2. STORAGE MANAGEMENT (in Linux, FreeBSD, and Windows XP)
3. ACCESS CONTROL AND SECURITY (in Linux, FreeBSD, and Windows XP)
4. NETWORKING AND WEB (in Linux, FreeBSD, and Windows XP)

Tests There will be a quiz, a mid-term exam and a final exam.

Grading Homework 1-4: 6% each, Programming project: 10%, Presentation project: 15%, Quiz: 10%, Mid-term: 20%, Final: 21%.

Policy *There will be absolutely no late submission unless otherwise noticed.*
Scoring is based on the correctness of your solution. Thus, you don't have to put extra effort on the appearance of your solution, though concise appearance is expected. Copying someone else's assignment is considered cheating and will be punished. Every one must have their own solution. However, interaction for the purpose of understanding a problem is not considered cheating and in contrast is encouraged.

Class Schedule

Date	Topic	Comments
3/7	Overview (Ch 1, 2, 3)	Kick off
3/14 (1:20-4pm)	Processes (Ch 4)	Include Unix usage
3/21 (1:20-4pm)	Thread (Ch5)	Include Unix usage
3/28 (1:20-4pm)	CPU scheduling	Include Unix usage
4/4 (1:20-4pm)	Process synchronization	Include Unix usage, HW1 due
4/11	Quiz & process synchronization	
4/18	Deadlocks	HW2 due
4/25	Mid term exam	
5/2	Memory management	
5/9	File systems	Programming project due
5/16	I/O systems	
5/23	Mass-storage structure	HW3 due
5/30	Protection and security	
6/6	Distributed systems	HW4 due
6/13	Final exam	
6/20	Final project presentation I	
6/27	Final project presentation II	Presentation project due