

Operating Systems CSCI-4210

Spring 2005

Course: CSCI-4210
Lectures: Tue, Fri 10:00-11:50AM Sage 3510
Home Page: <http://www.cs.rpi.edu/~hollingd/opsys>
Email: opsys@cs.rpi.edu

Instructor: Dave Hollinger
Office: Amos Eaton 110
Phone: 276-6722
Email: hollingd@cs.rpi.edu
Office Hours: Wed 3:00-5:00 (or by appt.)

TAs: Juong-Sik Lee leej6@cs.rpi.edu
Wei-Jen Wang wangw5@cs.rpi.edu

Texts: Modern Operating System, 2nd Ed.
Andrew S. Tanenbaum
ISBN: 0-13-031358-0

Grading: Midterm Tests (3): 45%
Homework/Projects: 55%

Course Home Page: The course home page will include homework assignments, lecture notes, references, handouts and announcements. Hardcopy of any class handouts will be provided only on request.

Homework: All homework must be done individually. Once assignments are made, the course home page will contain information on what is expected for homework submission. Some assignments will be submitted electronically.

Homework and Test Grading: Adjustments to homework and test grades will take place only during the week after grades have been returned to students. This means that you must bring any problems to our attention within one week of receiving a grade.

Cheating will not be tolerated. Any duplicate or near duplicate submissions will result in a minimum of a 2 letter grade drop for the final course grade for all students involved and may result in a failure for the entire course. For programming projects, you may *discuss* homework with other students (this includes WebCT discussion boards) but sharing of code in any form is not acceptable. Looking at another student's code or showing your code to another student is **not** permitted. If you need help with a project - send mail to opsys@cs.rpi.edu. Please contact the instructor if there is any part of this policy you do not understand.

Tests: The three tests will be given in class: Feb 18th, April 1st and May 3rd. Each test will cover roughly 1/3rd of the course material (the last test is **not** a comprehensive final exam).

Tentative Lecture Topic and Reading Schedule

Week of	Topics	Readings
January 18	History and Structure of Operating Systems C Programming, libraries, system calls	Chapter 1.1-1.5,1.7
25	Systems Programming Concepts Processes Unix and Windows programming	Chapter 1.6 Chapter 2.1 10.1-10.3, 11.1-11.2
February 1	Threads	Chapter 2.2
8	IPC, Scheduling	Chapter 2
15	Deadlock, Test #1 (Feb 18)	Chapter 3.1-3.2
*22	Deadlock	Chapter 3
March 1	Memory Management	Chapter 4
8	I/O, Filesystems	Chapter 5, 6.1-6.2
15	Spring Break	
22	Filesystems	Chapter 6
29	Security, Test #2 (Apr 1)	Chapter 9.1-9.3
April 5	Security	Chapter 9
12	Multimedia, Multiple Processors	Chapter 7,8
19	OS Design	Chapter 12
26	Case Studies: Windows, Linux, FreeBSD	Chapters 10,11
May *3	Test #3 (May 3)	

* is short week (one lecture)