CSI 400/500 Spring 2008
Prof Robert Ekblaw

Course Syllabus

Lecture: Mondays and Wednesdays, 7:15-8:35PM, Education Rm 120
Lab: Tuesdays or Thursdays, 7:15-8:10PM, Library 99

Office: Library 95J
Hours: Mondays and Wednesdays, 6-7PM and 8:45-9:45PM
Saturdays by appointment
Email: raekblaw@cs.ualbany.edu

TA: Lance Latham
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Office: Library 99 (Computer Science Laboratory)
Hours: Mondays and Wednesdays, 10AM - noon

Text: Operating Systems (3rd Edition) by Gary Nutt

Course Schedule:

Date	Topic	Text
1/23	Course Introduction, Strategies	Chapter 1
1/28	Parts of a Computer, Parts of an Operating System, Functions of an Operating System	3.1, 3.2, 4.1 – 4.5
1/30	Processes	2.1 – 2.3, 6.1 – 6.4
2/4	Using Processes, Threads, and Kernels	3.3, 6.5, 6.7
2/6	Designing Methods	6.6 + handout
2/11	Process Scheduling	6.8, 7.1 – 7.4
2/13	Scheduling, cont + Programming Hints and Standards	7.5, 7.6 + handout
2/20	Memory Management	11.1 – 11.3
2/25	Memory Strategies and Dynamic Memory	11.4, 11.5 + handout
2/27	Files, Directories and Folders	13.1 – 13.5
3/3	File Systems and Memory Mapping	13.6, 13.7, 12.7
3/5	Virtual Memory	12.1 – 12.6
3/10	Input/Output and review for Midterm	5.1, 5.2
3/12	MIDTERM	
3/17	Device Management	5.3 – 5.5
3/19	Synchronization: Semaphores	Chpt 8
3/31	Synchronization: Monitors	Chpt 9
4/2	Deadlock and Prevention	Chpt 10
4/7	Networks: Protocols and Layers	15.3 – 15.7
4/9	Remote Files	Chpt 16
4/14	Viruses and Intrusion	
4/16	Computer Security	Chpt 14 + 15.7
4/21	Designing an Operating System	Chpt 19 + 4.8
4/23	Concurrency	2.4, 8.4
4/28	Distributed Operating Systems	Chpt 17
4/30	Distributed Programming	18.3 – 18.5
5/5	Review for Final	

Homework
There will be four assignments requiring individual effort and one group project. The group project will have three different deadlines, each deadline requiring some form of output to be turned in. Not all assignments will be programming assignments. Different assignments will require different items to turn in. Each assignment will list and briefly describe the items to turn in.

Exams
There will be a Midterm and Final exam. The Final Exam will be comprehensive, although more emphasis will be placed on the topics in the second half of the course.

Grading Criteria
This is a merit course. That means you receive the grade you earned. There is no grading "on a curve". That means it is possible for everyone to achieve an A, or nobody. Grading of assignments is based upon completeness (turning in everything requested), comprehensiveness (demonstrating a working knowledge of the subject matter covered by the assignment), and timeliness. You will lose five points for each day an assignment is late. Assignments are due by 11PM on the date specified for that assignment. Receiving an assignment at 11:01 PM constitutes a day late.

Extra Credit
Extra credit is arranged ONLY with prior discussion with the professor. If you choose to do extra effort on an assignment, that effort will not be graded unless previously approved by the professor. Extra credit is not an expected part of this course – extra credit will only be offered under extreme or unusual circumstances.

Originality
You are expected to do your own work in this course. I have an extensive library of previous assignments. If any student turns in a copy of someone else's work, from either this semester or a previous one, that student will receive a 0 for that assignment. **THERE ARE NO EXCEPTIONS TO THIS POLICY!!!**

Final Grade
Your final grade will be determined by weighing the following graded material:

Homework	20%	Group Project	30%
Midterm	20%	Final Exam	30%

Letter Grades
Grades for each assignment, test, and final grade will be determined using the following matrix: (N/A means that grade is not available. There is only one failing grade - F)

	A	**B**	**C**	**D**	**F**
+	100	87-90	76-79	67-69	N/A
	95-99	83-86	73-75	63-66	0-59
-	91-94	80-82	70-72	60-62	N/A