ComS 352 Introduction to Operating Systems Spring 2012

Instructor and TA

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Lecture Room and Time  
Gilman 1810; MWF 2:10-3:00 pm

Recitation / Help Sessions  
Gilman 2205; R 1:10-2:00 pm

Prerequisites  
321, and 362 or 363, Engl 250

Textbook  
Silberschatz, Galvin, and Gagne, Operating System Concepts, 8th Ed., Wiley

Topics  
Chapter 1 & 2: Overview of OS  
Chapter 3: Processes  
Chapter 4: Threads  
Chapter 5: CPU Scheduling  
(Midterm Exam 1)  
Chapter 6: Process Synchronization  
Chapter 7: Deadlocks  
Chapter 8: Main Memory Management  
(Midterm Exam 2)  
Chapter 9: Virtual Memory  
Chapter 10: File-System Interface  
Chapter 11: File-System Implementation  
Chapter 12: Mass-Storage Structure  
Chapter 13: I/O Systems  
Chapter 14 & 15: Protection & Security  
(Final Exam)

Exams  
There will be two midterm exams and one final exam. Midterm exams will be one-hour, in-class exams. The tentative exam schedule is Friday, February 17 for Midterm 1, which will cover Chapters 1-5. Midterm 2 will be on Friday, March 30, and will cover chapters 6-8. The final exam will be given according to the University Schedule, and the date will be announced later. The final exam will cover the remaining material in depth and general concepts from the parts covered by midterms. All exams will be closed book and closed notes.
Homework
Homework assignments will be announced on every Monday (except the 1st week and the weeks of midterm exams), and will be due on the following Monday mid-night (unless stated otherwise). Homework assignments will be discussed during recitation/help sessions. All homework will be announced electronically on Blackboard System and must be turned in electronically on Blackboard. All homework should be submitted in PDF or plaintext format (Other formats are not acceptable).

Programming Projects
There will be two programming projects. The following policies will be applied to both projects:
• Projects must be turned in electronically by submitting all necessary source code (which may include test code) for correct compilation.
• Source code must include proper documentation to receive full credit.
• All projects require the use of makefiles or a certain script, such that the grader will be able to compile build your executable by simply typing “make” command.
• Source code must compile and run correctly on the machine pyrite, which will be used by the TA for grading.
• Programs that do not compile may receive zero point.
• Project statements will provide specifications; however, implementation-specific details may not be specified. It will be your responsibility to figure out the implementation approaches.
• You are responsible for thoroughly testing and debugging your code. Samples given with the project assignments are for explanation/illustration purpose only; the TA may try to break your code by subjecting it to bizarre test cases.

Grading Policy
Your final grade in this course will be based on homework, programming projects, and exams. These will be weighted as follows:
• 25% Homework (10 out of 11 homework assignments; the one with the lowest grade will be dropped)
• 25% Programming projects
• 30% (15%*2) Midterm exams
• 20% Final exam

Grading Scale
90% and higher: A
85% and higher: A-
80% and higher: B+
75% and higher: B
70% and higher: B-
65% and higher: C+
60% and higher: C
55% and higher: C-
50% and higher: D+
45% and higher: D
Lower than 45%: F

Late policy
Homework or programming projects will not be accepted after 72 hours later than the submission deadline. 10% of the full credit of the homework/project will be automatically deducted for submission later by 1 second to 1 day; 20% will be deducted for submission later by 1 day plus 1 second to 2 days; and 30% will be deducted for submission later by 2 day plus 1 second to 3 days. Research report submitted later than the designated submission deadline will not be accepted.
Appealing policy
Appealing for homework/programming project grades will be first handled by the TA within one week after the homework/project has been returned. For disputes, the student should appeal to the instructor within two weeks after the graded homework/project has been returned. Appealing for exam grades will be handled by the instructor. The student should appeal to the instructor within one week after the graded exam is returned.

Academic Honesty
Homework assignments and projects are individual efforts, not group efforts. While discussion of assignments with other students is encouraged, a level of discussion that produces identical work is prohibited. When discussing code with other students, you may
- discuss algorithms, data structures, and implementation strategies
- discuss the specifics of system calls or APIs
- assist in debugging, possibly by suggesting diagnostic print statements
- copy code given out in class
You may not however discuss algorithms to the level of detail that (almost) completely specifies it.

Accommodation of Disabilities
If you have a disability and require accommodations, please contact the instructor early in the semester so that your learning needs may be appropriately met. You will need to provide documentation of your disability to the Student Disability Resources (SDR) office, located on the main floor of the Student Services Building, Room 1076, 515-294-7220.