

# COSC 4330/6310—Fundamentals of Operating Systems

## Fall 2009

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**Office:** 569 PGH  
**Telephone:** 713-743-3341 during office hours  
**Class Schedule** MW 2:30-4:00 p.m. in SEC 203  
**Office Hours:** MW 4:00-4:45 and 7:00-7:30 p.m.  
**Web Pages:** <http://www.cs.uh.edu/~paris/4330/resources.htm>  
**Teaching Assistant** Anu Goyal ([agoyal@cs.uh.edu](mailto:agoyal@cs.uh.edu))  
**TA's Office Hours** TuTh 2-3 pm in PGH 300

### RECOMMENDED TEXTS

J.-F. Pâris, *Fundamentals of Operating Systems*, (being overhauled).  
A. Silberschatz, P. Galvin and G. Gagne, *Operating Systems Concepts*, any recent edition, Wiley.

### TENTATIVE SCHEDULE

<b>Week</b>	<b>Topic</b>	<b>Optional Readings</b>
1-2	<i>Introduction, interrupts, O. S. organization.</i>	Chapters 1 to 3.
3-4	<i>Processes, process creation and deletion, UNIX pipes, server organization, lightweight processes and threads.</i>	Chapter 4 but 4.5 and 4.6, Chapter 5 up to 5.3.
5-6	<i>Scheduling. Interprocess communication.</i> <b>Review Session TBA. First Midterm on Monday, September 28.</b>	Chapter 6, Sections 4.5 and 4.6 of chapter 4
7-8	<i>Interprocess synchronization, semaphores, monitors.</i>	Chapter 7
9-10	<i>Deadlocks. Memory management. Review Session TBA.</i>	Chapters 8 and 9
11-12	<b>Second Midterm on Monday, November 2.</b> <i>Virtual memory management.</i>	Chapter 10
13-15	<i>File systems. Protection.</i> <b>Review session TBA.</b> <b>Final on Wednesday, December 16 at 2:00 PM.</b>	Chapters 11 and 12

### GRADING

There will be two midterms (20% of your grade each), one final (20%) and three programming assignments (40%). **People failing the assignments or the exams will fail the course.**

All tests will be **closed book**. You will be responsible for all materials discussed in class (but not for the readings). You will be allowed **one 8.5"×11" one-sided sheet** of notes for each test.

All programming assignments will be in C/C++ under Linux. They will be graded for **correctness** and respect of **good programming practices** such as **modularity** and **documentation**. Be sure to dedicate enough time to them. Late assignments will be assessed a penalty of **5 points per day** unless announced otherwise. You will be given a total of **three** grace days to be used at your discretion.

No cheating will be tolerated on any graded assignment: **what you turn in must be your own work.** **The minimum penalty for any transgression will be an F grade for the course.**

### IMPORTANT

1. There will be **no lectures** on **Monday, November 16** and **Wednesday, November 18**. They will be replaced by the three review sessions.
2. All prerequisites will be strictly enforced.
3. Please contact me if you have **any special need**. We will work around them.
4. Please verify that the university has your **correct email address**: I will use it whenever I have to get in touch with you.