Course Introduction

CS239
Advanced Operating Systems
October 1, 1998
Dr. Richard Guy

Things to remember

- rguy@cs.ucla.edu
- http://www.cs.ucla.edu
- 3564 Boelter (adjacent to NW elevator)

Course Context

Three OS-related CS239 courses this year:

- Fall98: Advanced Operating Systems
- Winter99: Agents/Active Networks Seminar
- Spring99: Distributed Operating Systems

Course Overview

CS111 is prerequisite

Lecture-oriented; advance notes on the web

Text: "**Advanced Concepts in Operating Systems**", by Singhal & Shivaratri, 1994.

Exams: in-class, open book, essay-based

Grades: 25% midterm, 25% paper, 50% final

Office hours: following the lectures + virtual

Reading Materials

Textbook - **Advanced Concepts in Operating Systems**, by Singhal et al

Supplemental papers assigned weekly

- Most papers will be posted on WWW
- Others on reserve in SEL

Background books - Introductory OS texts by Tanenbaum and Silberschatz & Galvin

Paper/Project

Paper describing important recent research on some operating system topic (12-15 pages)

OR

Project designing/implementing new OS idea

One-paragraph paper/project proposals due at the end of "Week 3" (Oct. 23); e-mail OK.

Course Outline

- OS architecture
- Distributed operating systems
- Advanced file systems
- Fault tolerance and failure recovery
- Performance and measurement issues
- Security
- OS's for multiprocessors and databases
- *Topic schedule is approximate; it will slip!*

Course Schedule

- Thursday, October 1 - First day of class
- Friday, October 23 - Paper/project proposal
- Tuesday, November 3 - Midterm exam
- Friday, December 4 (5pm)- Papers due
- Thursday, December 17 (3pm) - Final exam
- Wednesday, December 23 - Grades ready

Study Tips

- Prepare before class
  - Breadth-first scan
  - Then, breadth-first careful read
  - This applies to both papers and textbook
- Go back and study issues raised in lecture
- Anything that excites you is good topic for paper/project/thesis, even after "deadline"