198:416	**Operating Systems Design**	**Fall 1998**
SEC-209		**TTh 4:30-5:50**

Instructor

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Credits

4

Objectives

To convey a thorough understanding of the basics of an operating system by studying techniques and algorithms for providing services in a computer system, and to understand the implementation aspects of popular operating systems by case studies

Prerequisites

Computer Architecture, Programming Languages

Outline

Operating System Structure. Computer organization. Process management, synchronization, and scheduling. Memory management, virtual memory. Threads. File systems, protection. I/O management. Networking. Case studies of UNIX, and Windows-NT.

Expected Work

Four Homework Assignments: 20%
One Midterm Exam: 20%
Two Programming Assignments: 25%
Final Exam: 35%

Text

Andrew S. Tanenbaum
Modern Operating Systems
Prentice Hall 1992

Other Books

1) Silberschatz and Galvin
Operating Systems Concepts (Fourth Edition)
Addison Wesley 1994
2) The design and implementation of the 4.3(4.4) BSD Operating Systems
McKusick et.al
Addison Wesley 1989, (1996)