

<b>Date (Week of)</b>	<b>Topics Covered</b>	<b>Reading Material</b>
1/12	General Introduction; Course Outline; Computer hardware review; Operating Systems(OS) fundamentals. Different OS structures.	Ch.1, Ch.2
1/19	Introduction to Nachos operating systems. Project 1 discussion: System calls and Exception handling	Project 1 handout
1/26	Different OS structures. Process model; Process description and control; examples from Nachos.	Ch.3 and Ch.4
2/2	The Thread Model; Implementing concurrency;Multithreaded programs; Nachos threads.	Ch.5
2/9	Process communication and synchronization: semaphores, monitors, messages, and locks.	Ch. 7
2/16	Classical IPC Problems and solutions.	Ch.7
2/23	Exam Review. Exam 1: 2/25. Project 2 discussion	Ch.1-5, and 7. Project 2 handout
3/1	CPU scheduling: long term, short term and real-time scheduling.	Ch. 6
3/8	Deadlock detection and resolution; avoidance and prevention.	Ch.8
3/15	Spring break	
3/22	Memory management. Virtual memory and deamnd paging.	Ch. 9 and Ch.10
3/29	Project 3 discussion.	Project 3 handout
4/5	File system design and implementation; IO subsystem and mass storage	Ch. 11, Ch.12, and Ch.13
4/12	Security and protection; authorization and authentication;Trusted systems.	Ch. 18 and 19
4/19	Unix, Linux, and Windows-2000 Case Studies; Design and implementation issues in Operating Systems	
4/26	Review for the final exam. Final exam during final exam week.	
<b>Important Dates</b>	<b>Due Date</b>	
2/17	Project 1	
3/31	Project 2	
4/23	Project 3	
2/25	Exam 1	
Finals Week	Final Exam	