Tentative Syllabus

Because I teach to the students, and not to the syllabus, these dates and topics are tentative and subject to change without warning. In particular, if I don't discuss something you're interested in, ask about it! I may very well add it or modify what I'm covering to include it.

The discussion sections will present additional material and examples. The discussion section topics are *tentative* and subject to change as we see fit. Regardless of the topic listed, all discussion sections have a few ground rules:

- If you don't understand something in lecture, or are having problems with the assignments, we encourage you to ask about it. The primary goal of a discussion section is to discuss points that are confusing you, and we will clear up any confusion even if some material is not covered.
- You are responsible for material covered in discussion section. That material may be on assignments and exams.

	date		topic	reading and notes
1.	Mar	28	Introduction, history of operating systems	*text*, §1, 2
2.	Mar	30	System calls and how they work	
3.	Apr	1	Processes and process management	*text*, §3–6
4.	Apr	4	CPU and process scheduling	*text*, §7
5.	Apr	6	CPU and process scheduling	*text*, §8, 9
6.	Apr	8	Concurrency and the critical section	*text*, §25, 27
7.	Apr	11	Concurrency solutions, semaphores	*text*, §28, 29, 31
8.	Apr	13	Higher-level language constructs	*text*, §30, 33; homework 1 due
9.	Apr	15	Monitors, eventcounters, IPC	*text*, §32
10.	Apr	18	Concurrency bugs, livelock, deadlock	*text*, §26; lab exercise 1 due
11.	Apr	20	Memory and memory management	*text*, §12–15
12.	Apr	22	Memory and memory management	*text*, §12–15
13.	Apr	25	Review for midterm	
Exam.	Apr	27	*Midterm*	lab exercise 1 due
14.	Apr	29	Segmentation and Paging	*text*, §16, 18
15.	May	2	Page replacement algorithms	*text*, §18, 19
16.	May	4	Page, frame replacement algorithms	*text*, §20
17.	May	6	*Guest lecture by Prof. Wu*	
18.	May	9	Working set, I/O subsystem	*text*, §20, 36–37
19.	May	11	Device I/O	§36–37; homework 2 due
20.	May	13	Devices and I/O	*text*, §36
21.	May	16	Secondary storage, files and directories	*text*, §37, 39
22.	May	18	Access control, disk block allocation	*text*, §37, 49
23.	May	20	Networking	*text*, §49
24.	May	23	Security, principles, authentication	*text*, §54, 55
25.	May	25	Authentication, network security, identities	*text*, §54, 55; homework 3 due
26.	May	27	Network security, cryptography, malware	*text*, §54, 55
Skip.	May	30	**Memorial Day (University holiday)**	
27.	Jun	1	Review for final	
Skip.	Jun	2	*last day of classes (no class)*	homework 4, lab exercise 2 due
Exam.	Jun	6	*Final exam*	Time: 3:30pm–5:30pm