Tentative Syllabus

These 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.

All readings are from the text and a handout that is available on Canvas.

Lectures

lec.	date	topic	reading	notes
1.	Mon Mar 29	Intro to computer security	§1	Homework #1 out
2.	Wed Mar 31	Design principles	§14	
3.	Fri Apr 2	Robust programming	handout, §31.1–31.4	Lab #1 out
4.	Mon Apr 5	Robust programming	handout	
5.	Wed Apr 7	Vulnerability analysis	§24.1–24.2, 24.5	Homework #1 due, #2 out
6.	Fri Apr 9	Vulnerability models	§24.3–24.4, 31.5	
7.	Mon Apr 12	Attacks	§27.1–27.2	
8.	Wed Apr 14	Introduction to assurance	§19	
9.	Fri Apr 16	Access control matrix, HRU result	§2, 3.1–3.2	Lab #1 due, #2 out
10.	Mon Apr 19	Policy models	§4.1–4.5	
11.	Wed Apr 21	Example policies	§4.6, G	
12.	Fri Apr 23	Confidentiality models	§5.1–5.2.2, 5.3, A	Homework #2 due, #3 out
13.	Mon Apr 26	Integrity models	6.1, 6.2.3, 6.4	
14.	Wed Apr 28	Trust models	6.5	*midterm given out*
15.	Fri Apr 30	Other models	§8.1, 8.3, 8.4	
16.	Mon May 3	Introduction to cryptography	§10.1–10.2, F	*midterm due*
17.	Wed May 5	Public key cryptography	§10.3–10.5, B	Lab #2 due, #3 out
18.	Fri May 7	Key exchange	§11.1–11.2, 11.4	Homework #3 due, #4 out
19.	Mon May 10	Cipher techniques	§12.1,12.3–12.4, 12.5.3	
20.	Wed May 12	Authentication	§13	
21.	Fri May 14	Anonymity, ACLs	§15.7, 16.1	Lab #3 due, #4 out
22.	Mon May 17	C-lists, other mechanisms	§16.2–16.4	
23.	Wed May 19	Information flow	§17.1, 17.3, C	Homework #4 due, #5 out
24.	Fri May 21	More information flow	§17.4, 17.6	
25.	Mon May 24	Malware	§23.1–23.7	
26.	Wed May 26	Malware defenses	§23.9	
27.	Fri May 28	Intrusion detection	§26	Lab #4 due
—.	Mon May 31	**Memorial Day** (no class)		
28.	Wed Jun 2	*to be arranged*		Homework #5 due; *final given out*
—.	Wed Jun 9	Final exam period; not held		*final due at 8:00pm*

Discussion Sections

dis.	dates	topic
–.	Mar 29, 31	*No discussion section*
1.	Apr 5, 7	Password management
2.	Apr 12, 14	Cross-site scripting
3.	Apr 19, 21	Phishing, hooking
4.	Apr 26, 28	Review for midterm
5.	May 3, 5	SQL and command injection
6.	May 10, 12	*ssh*, *tor*
7.	May 17, 19	*wireshark*, net traces
8.	May 24, 26	Review midterm answers, and for final
–.	May 31, Jun 2	*No discussion section*