## **Tentative Syllabus**

This syllabus is tentative and subject to change as needed. If there is a topic you want to hear about and it is in the syllabus, please let me know. I won't promise to cover it, but I may ....

tne sy	Date	Topic	y Reading	
1.	Fri, Sep 29	Introduction to Computer Security	§1	
	Fri, Sep 29	Discussion Section: Robust Programming	handout	
2.	Mon, Oct 2	Introduction; common vulnerabilities	§1	
3.	Wed, Oct 4	Common vulnerabilities	31	
4.	Fri, Oct 6	Principles of secure design	§13	
••	Fri, Oct 6	Discussion Section: Robust Programming, con't	handout	
5.	Mon, Oct 9	Flaw Hypothesis Methodology	§23.1, 23.2	
6.	Wed, Oct 11	Flaw Hypothesis Methodology	§23.2	
7.	Fri, Oct 13	Vulnerability models	§23.3, 23.4	
, .	Fri, Oct 13	Discussion Section: Writing good code I	§29.1–29.3	
8.	Mon, Oct 16	Vulnerability models	§23.3, 23.4	
9.	Wed, Oct 18	Access control matrix model; HRU result	§2, 3.1, 3.2	
10.	Fri, Oct 20	Policies and their expression	§2, 3.1, 3.2 §4	
10.	Fri, Oct 20	Discussion Section: Writing good code II	§29.4, 29.5	
11.	Mon, Oct 23	Confidentiality: Bell-LaPadula	§5.1, 5.2–5.2.2; 5.3	
12.	Wed, Oct 25	•	§6.1, 6.2, 6.4	
		Integrity: Biba, Clark-Wilson	§9.1, 9.2	
13.	Fri, Oct 27 Fri, Oct 27	Basic cryptography	§29.6	
1.4		Discussion Section: Writing good code III		
14. 15.	Mon, Oct 30 Wed, Nov 1	Classical cryptography	§9.2 §9.3	
		Public key cryptography		
16.	Fri, Nov 3	Cryptographic protocols, signatures, certificates	§9.4, 10.1, 10.2, 10.4.2, 10.6	
17	Fri, Nov 3	Discussion Section: Review for midterm		
17.	Mon, Nov 6	Midterm exam		
18.	Wed, Nov 8	Electronic voting		
19.	Fri, Nov 10	Network security I	§11.1, 11.3, 11.4.1	
	Fri, Nov 10	Discussion Section: to be arranged		
20.	Mon, Nov 13	Authentication	§12	
21.	Wed, Nov 15	Identity	§14	
22.	Fri, Nov 17	Access control mechanisms	§15	
	Fri, Nov 17	Discussion Section: to be arranged		
23.	Mon, Nov 20	The confinement problem, Trojan horses	§17.1, 17.2, 22.1, 22.2	
24.	Wed, Nov 22	Computer worms and viruses, other vermin	§22.3–22.5, 22,7	
	Fri, Nov 24	No class (Thanksgiving)		
25.	Mon, Nov 27	Intrusion detection		
26.	Wed, Nov 29	Network security II	§26	
27.	Fri, Dec 1	Basics of assurance	§18	
	Fri, Dec 1	Discussion Section: to be arranged		
28.	Mon, Dec 4	Evaluating systems	§21	

	Date	Торіс	Reading
29.	Wed, Dec 6	to be arranged	
30.	Fri, Dec 8	to be arranged	
	Fri, Dec 8	Discussion Section: Review for final	
	Wed, Dec 13	Final exam	