

## Planned Syllabus

#	date	topic	notes
1.	Fri, Jan 4	Introduction; what is computer security	
	Fri, Jan 4	<i>Discussion:</i> class project	
2.	Mon, Jan 7	Robust programming	
3.	Wed, Jan 9	Robust programming ( <i>con't</i> )	
4.	Fri, Jan 11	Security in programming: auditing and attacking	
	Fri, Jan 11	<i>Discussion:</i> security in programming	
5.	Mon, Jan 14	Security in programming: auditing and attacking ( <i>con't</i> )	<b>homework 1 due</b>
6.	Wed, Jan 16	Flaw hypothesis methodology	
7.	Fri, Jan 18	Vulnerabilities analysis and models	
	Fri, Jan 18	<i>Discussion:</i> Security policies	
	Mon, Jan 21	<b>no class</b> (Martin Luther King Day)	
8.	Wed, Jan 23	Access control matrix, HRU result, policy basics	
9.	Fri, Jan 25	Bell-LaPadula and confidentiality policy models	
	Fri, Jan 25	<i>Discussion:</i> Auditing and analyzing attacks	
10.	Mon, Jan 28	Biba, Clark-Wilson, and integrity policy models	<b>homework 2 due</b>
11.	Wed, Jan 30	More policy models	
12.	Fri, Feb 1	Basic cryptography: basis and classical, DES	
	Fri, Feb 1	<i>Discussion:</i> Policies	
13.	Mon, Feb 4	Basic cryptography: public key	
14.	Wed, Feb 6	Key management: Needham-Schroeder, PKI, others	
15.	Fri, Feb 8	Cipher techniques and randomness	
	Fri, Feb 8	<i>Discussion:</i> Review for midterm	
16.	Mon, Feb 11	<b>midterm</b>	<b>homework 3 due</b>
17.	Wed, Feb 13	Example cryptographic protocols: Secure RPC, others	
18.	Fri, Feb 15	Authentication	
	Fri, Feb 15	<i>Discussion:</i> Cryptographic protocols	
	Mon, Feb 18	<b>no class</b> (Presidents Day)	
19.	Wed, Feb 20	Authentication ( <i>con't</i> )	
20.	Fri, Feb 22	Design principles for security	
	Fri, Feb 22	<i>Discussion:</i> Midterm	
21.	Mon, Feb 25	Representing identity	<b>homework 4 due</b>
22.	Wed, Feb 27	Access control mechanisms: ACLs, C-Lists, ring	
23.	Fri, Mar 1	Information flow and the confinement problem	
	Fri, Mar 1	<i>Discussion:</i> Firewalls and network access	
24.	Mon, Mar 4	Confinement problem and malicious logic	
25.	Wed, Mar 6	Malicious logic	
26.	Fri, Mar 8	Auditing	

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	Fri, Mar 8	<i>Discussion: to be arranged</i>	
27.	Mon, Mar 11	Intrusion detection and response	
28.	Wed, Mar 13	Intrusion detection and response	<i>homework 5 due</i>
29.	Fri, Mar 15	Conclusion and review	
	Fri, Mar 15	<i>Discussion: none</i> (virtual Monday)	
	Wed, Mar 20	<i>final exam section 1</i>	10:30 AM to 12:30 PM
	Sat, Mar 23	<i>final exam section 2</i>	1:30 PM to 3:30 PM

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