

Planned Syllabus

#	date	topic	reading
1.	Wed, Jan 3	Access control matrix model	§2
2.	Fri, Jan 5	<i>no class</i>	
3.	Mon, Jan 8	Safety question, Harrison-Ruzzo-Ullman model	§3.1–3.2
4.	Wed, Jan 10	Take-Grant Protection Model	§3.3
5.	Fri, Jan 12	Schematic Protection Model	§3.4
	Mon, Jan 15	<i>no class—Martin Luther King Holiday</i>	
6.	Wed, Jan 17	Expressive power, TAM and variants	§3.5
7.	Fri, Jan 19	Security and precision, Bell-LaPadula model (lattice)	§4.7, 5.1–5.2.1
8.	Mon, Jan 22	Bell-LaPadula model, basic security theorem	§5.2.3
9.	Wed, Jan 24	Bell-LaPadula model, proving systems secure; System Z	§5.2.4–5.4
10.	Fri, Jan 26	Biba, Lipner integrity models	§6.1–6.3
11.	Mon, Jan 29	<i>no class</i>	
12.	Wed, Jan 31	Clark-Wilson, Chinese Wall models	§6.4, 7.1
13.	Fri, Feb 2	CISS model; ORCON; RBAC	§7.2–7.4
14.	Mon, Feb 5	Deterministic noninterference	§8.1–8.2
15.	Wed, Feb 7	Nondeducibility, generalized noninterference, restrictiveness	§8.3–8.5
16.	Fri, Feb 9	Information flow and non-lattice policies	§16.1–16.2.2
17.	Mon, Feb 12	More policies, compiler-based flow mechanisms	§16.2.3–16.3
18.	Wed, Feb 14	Execution-based flow mechanisms, examples	§16.4–16.5
19.	Fri, Feb 16	Confinement problem, virtual machines	§17.1–17.2.1
	Mon, Feb 19	<i>no class—Presidents' Holiday</i>	
20.	Wed, Feb 21	Sandboxes, covert channels	§17.2.2–17.3.1
21.	Fri, Feb 23	Covert channel detection, analysis	§17.3.1–17.3.2
22.	Mon, Feb 26	Covert channel analysis, mitigation	§17.3.2–17.3.3
23.	Wed, Feb 28	Malicious logic and undecidability	§22.6
24.	Fri, Mar 2	Assurance: Requirements Definition and Analysis	§18, 19.1
25.	Mon, Mar 5	Assurance: System and Software Design	§19.2
26.	Wed, Mar 7	Assurance: Implementation, Integration, and Testing	§19.3
27.	Fri, Mar 9	<i>to be arranged</i>	

- 28. Mon, Mar 12 *to be arranged*
- 29. Wed, Mar 14 *no class*
- Fri, Mar 16 ***Final Exam Scheduled***