

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

Week of March 27, 2006

Reading: text §1, 13

Topics: Introduction; discussion of the role of policy; principles of secure design

Week of April 3, 2006

Reading: text §2, 3.1—3.3

Topics: Access control matrix, Harrison-Ruzzo-Ullman result, Take-Grant Protection Model

Week of April 10, 2006

Reading: text §3.4

Topics: SPM and its descendants

Week of April 17, 2006

Reading: text §3.5, 4.7

Topics: Expressive power, security policies and precision

Week of April 24, 2006

Reading: text §5

Topics: Bell-LaPadula Model, System Z, and the controversy

Week of May 1, 2006

Reading: text §6

Topics: Biba's Model, Lipner's Model, Clark-Wilson Model

Week of May 8, 2006

Reading: text §7

Topics: Chinese Wall Model, CISS Model, RBAC Model

Week of May 15, 2006

Reading: text §8

Topics: Noninterference, nondeducibility, and policy composition

Week of May 22, 2006

Reading: text §16

Topics: Models of information flow, static and dynamic information flow analysis

Week of May 29, 2006

Reading: text §17

Topics: Confinement problem, covert channels

Week of June 5, 2006

Reading: text §22.6

Topics: Computer viruses, malicious logic