

March 30, 2026 Outline

Reading: *text*, §1, 2.1–2.2, 20.1.2.2

Due: Homework #1, due April 10; Project selection, due April 17

1. Introduction to class
 - (a) General information
 - (b) Homework
 - (c) Handouts
2. The basic components of security
3. Reference monitors and security policy
4. Access control matrix and entities
 - (a) Subject, objects (includes subjects)
 - (b) State is (S, O, A) where A is access control matrix
 - (c) Rights (represent abstract notions)
5. Instantiating access control matrices
 - (a) Example: UNIX file system
 - i. *read, write, execute* on files
 - ii. *read, write, execute* on directories
6. Access control matrix and entities
 - (a) Example: Boolean expressions
 - (b) Example: History and limiting rights