

## Outline for September 29, 2025

**Reading:** *text*, §4.2–4.3, 2.1–2.3

**Due:** Homework 1, due October 8; Project selection, due Oct 10

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1. Class overview
2. Policy
  - (a) Sets of authorized, unauthorized states
  - (b) Secure systems in terms of states
  - (c) Defining confidentiality, integrity, availability
  - (d) Policy models and mechanisms
  - (e) Example
3. Types of Policies
  - (a) Military/government vs. confidentiality
  - (b) Commercial vs. integrity
4. Access Control Matrix
  - (a) What it is
  - (b) Primitive operations
    - i. **create subject**
    - ii. **create object**
    - iii. **destroy subject**
    - iv. **destroy object**
    - v. **enter  $r$  into  $A[s, o]$**
    - vi. **delete  $r$  from  $A[s, o]$ .**
  - (c) Commands, nesting, and conditions
    - i. Mono-operational commands
    - ii. Conditional commands