

Lecture 1: March 30, 2026

Reading: *text*, §1

Due: Homework 1, due April 10, 2026

1. Greetings and felicitations!
 - (a) About the class
 - (b) No discussion section this week
 - (c) My office hours *today only* will be in 2209 Watershed Sciences
2. Basic components of computer security
 - (a) Confidentiality
 - (b) Integrity
 - (c) Availability
3. Classes of threats
 - (a) Disclosure
 - (b) Deception
 - (c) Disruption
 - (d) Usurpation
4. Policy vs. mechanism
 - (a) Policy
 - (b) Mechanism
5. Goals of security
 - (a) Prevention
 - (b) Detection
 - (c) Recovery
6. Trust and Assumptions
7. Types of mechanisms: secure, precise, broad
8. Assurance
 - (a) Specification
 - (b) Design
 - (c) Implementation
 - (d) Maintenance and operation
9. Human issues
 - (a) Organizational problems
 - (b) People problems
10. Human issues
 - (a) Organizational problems
 - (b) People problems