

# Lecture 1 Outline

## September 21, 2016

**Reading:** *text*, §1

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1. Greetings and felicitations!
  - a. About the class
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