Lecture 1 Outline

Reading: text, §1

1. Overview of topics
   a. What can security decide, and what can it not decide?
   b. Policy models: what can systems and people do, and what can they not do?
   c. Information flow: how can information move around a system?

2. Basics of security
   a. Functionality
      i. Confidentiality
      ii. Integrity
      iii. Availability
   b. Threats
      i. Disclosure
      ii. Deception
      iii. Disruption
      iv. Usurpation
   c. Goals
      i. Prevention
      ii. Detection
      iii. Recovery
   d. Assurance
      i. Specification
      ii. Design
      iii. Implementation
      iv. Operation
   e. Trust
      i. What are your assumptions?
      ii. How well-founded are they?
   f. People
      i. Organizations
      ii. Individuals