

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