

Lecture 1 Outline

Reading: *text*, §1, 2

1. Overview of course
 - 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: confidentiality, integrity, availability
 - b. Assurance: specification design, implementation, operation
 - c. Trust: what are your assumptions? How well-founded are they?
 - d. People: organizations, individuals
3. Access control matrix and entities
 - a. Subject, objects (includes subjects)
 - b. State is (S, O, A) where A is access control matrix