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