Lecture 1: What Is Computer Security All About?

Date: September 27, 2013          Homework Due: Oct. 4 at 5:00pm

1. All about the class
2. What security is all about
   a. Keeping secrets (confidentiality)
   b. Protecting against unauthorized changes (integrity)
   c. Being able to get to things (availability)
3. What does security do?
   a. Prevent attacks
   b. Detect attacks
   c. Recover from attacks
4. People and Security
   a. Laws and customs
   b. Organizations
   c. People problems
5. Trust and assumptions
   a. Figuring out what you trust
   b. Leads to assumptions you (and others) make
6. Policies and mechanisms
   a. Policy
   b. Mechanism
7. Functionality and assurance