

## Outline for April 30, 2007

1. Greetings and felicitations!
  - a. Midterm has been ***moved*** to Friday, May 4. If this change causes problems for you, please come see me, or e-mail me, ***at once***.
  - b. Sample midterm is available on the web; so are the answers.
  - c. Warning: no office hours on Wednesday of next week!
  - d. I will hold a review session for Thursday, May 3, from 3:30–4:30 in 1227 Haring Hall.
  - e. I will also hold special office hours on Thursday: 10:00–11:00AM. Also, don't forget I have office hours on Friday from 9:00–9:50AM.
2. Wireless
  - a. Your wireless card locates an access point (AP) connected to a LAN
  - b. AP and your card handshake (and check that you're allowed to use that AP!), begin exchanging data
  - c. Broadcast, so anyone can read your messages
  - d. Many protocols, most from IEEE 802.11? family; 802.11b, 802.11g, 802.11n, 802.11x most common and offer different levels of security and speed
3. Inside a network, from you to the wire
  - a. Application layer converts message to bits and attaches sending and receiving computer
  - b. Presentation layer converts bits to ASCII, compresses and encrypts (if you are encrypting)
  - c. Session layer sets boundaries for a message
  - d. Transport layer divides data into segments and creates checksums