

# CS3413

## Data Communications

Fall 2009 - Assignment 1

**Due Date: Friday, Sept 11, 2009 5pm**

**!!!! NO LATE HW WILL BE ACCEPTED !!!!**

50 points

Please submit your solution via WebCT.

1. Draw the simple model of communications illustrated in Figure 1.2a (of the textbook), and give an example (different than the one in Figure 1.2b) for each element.
2. Pick at least two tasks from Table 1.1, and explain at what levels they need to be performed.
3. What are the most common transmission media used in homes?
4. What are the key differences between circuit switching and packet switching?
5. Briefly explain the advantages and disadvantages of using layered architecture in computer networks.