**CSC 335 Data Communications and Network I**

**Homework 1**

1. What are the components of a communications network?
2. Why is packet switching preferred over circuit switching in today’s communications networks?
3. Provide a high-level overview of the structure of a typical data packet. What kinds of information are you likely to find in the header of a typical packet?
4. Name the five layers of the TCP/IP model and explain the main functions of each of the layers.
5. Find the web pages of any two standards bodies for telecommunication networks. Provide their URLs. Find one standard of your choice from one of these sites and write a few sentences describing its characteristics.