Homework #1

CIS 340: Concepts of Telecommunications and Networking Instructor: Yi Yang

Due: before class begins (9:30am) on September 7th, 2017 (Thursday)

Total: 100 points.

1. What is the OSI reference model? (5 points)

What is the TCP/IP reference model? (5 points)

What are the similarities (10 points) and differences (10 points) between the OSI model and the TCP/IP model?

1. What is encapsulation?

Use Wireshark to observe packet formats and encapsulations on a computer.

Attach screenshots from Wireshark to illustrate encapsulation. (30 points)

1. Design a computer network for Fontbonne University (topology, devices, etc). Justify your design using words. (30 points)
2. Write a summary of the history of computer networks. Please include major events until the year of 2017. (10 points)
3. Reading assignment: Chapter 1 of textbook.