

# **ECE671 – Computer Networks**

## ***Fall 2011 – Course Project***

**Prof. Wolf**

For the course project, you should design a network experiment and perform it on ONL. Detailed instructions are below. The hypothesis for your project (see below) needs to be submitted via SPARK by December 2, 2011 at 11:59 p.m. The project report is due December 13, 2011 at 11:59 p.m. on SPARK. The project report must be formatted according to IEEE Transactions guidelines. Your report must not exceed 3 pages.

### ***Part 1: Hypothesis***

State a concise (1-2 sentences) hypothesis relating to computer networks. You should be able to test the hypothesis with experiments in ONL. The hypothesis should lead to experiments that are sufficiently different from prior lab assignments. Please contact me if you have any questions. You must submit the hypothesis via SPARK by December 2, 2011 at 11:59 p.m. You will receive feedback in case your hypothesis does not appear suitable.

### ***Part 2: Experiment***

Design a good experiment that can generate results that support (or counter) the stated hypothesis. Perform these experiments on ONL. Refine your approach as necessary.

### ***Part 3: Project Report***

Submit a project report on SPARK by December 13, 2011 at 11:59 p.m. This report should contain at least the following:

- Statement of hypothesis
- Explanation of why answering this hypothesis is interesting
- Description of experiment design (topology, traffic, measurements, etc.)
- Explanation of why experiment should help in testing hypothesis
- Results from experiment
- Explanation of how results support hypothesis (or not)

The report should be a cohesively written document, not a list of bulleted items. The project report must be formatted according to IEEE Transactions guidelines (see: <http://www.ieee.org/web/publications/authors/transjnl/index.html> ) and must not exceed 3 pages.

Note regarding plagiarism: It is not acceptable that you copy any text from any source without clearly stating what is quoted and where it comes from. Any text that is not explicitly quoted must have been written by you. If any form of plagiarism is detected, the entire project will be scored as a zero and further steps may be taken.