

**CSCI 5573: Advanced Operating Systems**  
**Fall 2020**

## **Homework Four**

*Due Date and Time: 11:59 PM, Monday, December 07, 2020*

You must work in a virtual machine for this assignment, otherwise you may corrupt your operating system kernel. You will need super user privileges to do this assignment.

You may work in teams of size two students.

1. Incorporating networking in capsule

In the isolated computing environment, capsule that you implemented in Assignment three, processes so not have access to any network interfaces. In this problem, your task is to extend your capsule to allow processes within a capsule to connect to the Internet as well as have processes in different capsules communicate with one another. To test this functionality, write a program that connects a process in a capsule to some server in the Internet. Write another program that establishes a TCP client-server communication between two processes in two different capsules.

2. To be added