**CSC 2500: Unix Programming Lab**

**LAB 01**

1. How can you determine what shell you are running? (5)
2. Briefly, what information does the ––help option display for the tar utility? How would you display this information one screen at a time? (5)

1. How would you display a list of utilities that compress files? (5)
2. The example on page 35 shows that man pages for passwd appear in sections 1 and 5 of the system manual. Explain how you can use man to determine which sections of the system manual contain a manual page with a given name. (10)
3. How would you find out which Linux utilities create and work with archive files? (5)

1. What happens when you give the following commands if the file named done already exists? (10)
   1. $ cp to\_do done
   2. $ mv to\_do done
2. What is the result of giving the which utility the name of a command that resides in a directory that is not in your search path? (5)
3. Try giving these two commands: (10)

$ echo cat

$ cat echo

Explain the differences between the output of each command.

1. How can you find out which utilities are available on your system for editing files? Which utilities are available for editing on your system? (10)
2. Which command can you use to determine who is logged in on a specific terminal? (5)

1. Is each of the following an absolute pathname, a relative pathname, or a simple filename? (10)
   1. Milk\_co
   2. correspond/business/milk\_co
   3. /home/max
   4. /home/max/literature/promo
   5. ..
   6. Letter.0210
2. List the commands you can use to perform these operations: (10)
   1. Make your home directory the working directory
   2. Identify the working directory
3. What is an inode? What happens to the inode when you move a file within a filesystem? (10)

**Submission:**

**Submit the completed lab assignment (turn in as a MS doc / pdf) on ilearn.**