**CST-321 UNIX Family of Operating Systems**

Activity Directions:

In this assignment, students will demonstrate familiarity with the basic command set of UNIX/Linux. In continuation to the “Systems and Tools” assignment, you will further demonstrate your ability to write, compile, and execute C code and use system calls. Execute the UNIX/Linux commands and tasks below and capture screenshots clearly showing successful execution:

1. *whoami*
2. *users*
3. *ls* (use the built-in manual to explore at least 3 arguments for ls)
4. Change *r,w,x* permission to a file using *chmod*.
5. Check the value of any 3 environment variables.
6. Use *grep* to search for specific content in a file.
7. Use *sort, grep*, and *piping* to find a string in a list of files in a directory.
8. Explore the super user account and explain when and how would you use it.
9. Use the Linux/UNIX built-in manual and identify 5 additional, distinct, useful commands. Execute each and capture the results.
10. Create a shell script *test.sh* with 5 different UNIX/Linux commands of your choosing, execute it, and show the results.

Deliverables:

1. Cover Sheet with the name of this assignment, date, and your name.
2. UNIX/Linux commands exploration results:
   1. A table listing the commands you tested.
   2. A set of screenshots showing the testing of each command.
   3. A list of resources you used (e.g., software, websites, articles).
3. Package all of the above into one document and upload it to the LMS.
4. Zip up the shell script in a single zip file and upload it to the LMS.