**ATMS 305 Spring 2017 Homework 1**

Enter the output of these commands, and save the responses/screen shots in a file called HW1\_netid.pdf in your home directory.

**1. Connecting and disconnecting**

1. Log in to keeling.earth.illinois.edu with your netID and password. Log out.
2. Log in again, using a random user name

-> What happens?

2. Create a file

Use pico to create a file called signature.txt in /data/atms305/netID. The file should have the following:

Your name

Your major

Your hometown

Save the file and exit.

**3. Directories**

These are some exercises to help you get the feel for linux directories.

1. Enter the command cd blah

-> What happens?

1. Enter the command cd ..

Mind the space between "cd" and ".."! Use the **pwd** command.

-> What happens?

1. List the directory contents with the **ls** command.

-> What do you see?

-> What do you think these are?

-> Check using the **pwd** command.

1. Enter the **cd** command.

-> What happens?

1. Repeat step 2 two times.

-> What happens?

1. Display the contents of this directory.
2. Try the command **cd root**

-> What happens?

-> To which directories do you have access?

1. Repeat step 4.

Do you know another possibility to get where you are now?

**4. Files**

* Change directory to / and then to etc. Type **ls**; if the output is longer than your screen, make the window longer, scroll, or try **Shift**+**PageUp** and **Shift**+**PageDown**.

The file inittab contains the answer to the first question in this list. Try the **file** command on it.

-> The file type of my inittab is .....

* Use the command **cat inittab** and read the file.

-> What is the default mode of your computer?

* Return to your home directory using the **cd** command.
* Enter the command **file .**

-> Does this help to find the meaning of "."?

* Can you look at "." using the **cat** command?
* Display help for the **cat** program, using the --help option. Use the option for numbering of output lines to count how many users are listed in the file /etc/passwd.

**5. Getting help (when you don’t have Google)**

* Read **man *intro***
* Read **man *ls***
* Read **info *passwd***
* Enter the **apropos pwd** command.
* Try **man** or **info** on **cd**.

-> How would you find out more about **cd**?

* Read **ls --help** and try it out.