

**Fall 2017 - W205 – Storing and Retrieving Data
Week 3 Live Class Session Agenda
Kevin R. Crook**

- Schedule
 - Lab 2 – due next Tuesday, 9/19/2017 at 11:59 pm
 - Lab 5 – due Tuesday, 9/26/2017 at 11:59 pm
 - In ISVC, please submit under Week 7, Lab 5
 - For next week
 - Unit 3 – Structure and Organization

- Asynchronous
 - Unit 7 – Querying Data
 - Unit 3 – Structure and Organization
 - Cover next week in class

**Instructor Led Exercise
“Hard Skills” – Linux Command Line**

Users

root

w205

login shells versus a change user

Groups

Users have primary group, plus other groups

Buffered I/O

File systems have to be in synch before you can stop an instance

Hard killing a process with open files can easily corrupt a file system

Processes

Listing processes

Killing processes (soft kill versus hard kill)

Files

Listing files

Creating files

Copying files
Renaming files
Deleting files
Dots: before, inside, multiple, after
Wild cards aka regular expressions
Linking to files (hard links and soft links)
Checking permissions on files
Changing permissions on files

Directories

Absolute paths
Relative paths
Moving around in directories
Dots: single, double
Creating directories
Copying directories
Deleting directories
Renaming directories
Checking permissions on directories
Changing permission on directories

Standard I/O

stdin
stdout
stderr
redirecting

Processes

Listing processes
Sequential execution
Pipelining
Background and Foreground
Killing (soft kill versus hard kill)
nohup

Tar, Tarball, Zip, Unzip

/tmp