

# CSci 430 Class DevBox Reference

## Command Reference

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## 1 General Linux Command Line Commands

The following tutorial has more information about the Unix/Linux command line, including things like specifying file paths, using file wildcards, using pipes and I/O redirection, etc.

- SWCarpentry, The Unix Shell: <http://swcarpentry.github.io/shell-novice/>

Command	Description
\$ <b>ls</b>	List directory files, try <b>ls -lh</b> to get a long listing.
\$ <b>pwd</b>	Print current Working Directory
\$ <b>cd</b> <b>dirname</b>	Change current working directory to <b>dirname</b>
\$ <b>mkdir</b> <b>dirname</b>	Make a new directory.
\$ <b>mv</b> <b>filename</b> <b>dest/path/for/file</b>	Move <b>filename</b> from current location to location specified by path.
\$ <b>cp</b> <b>filename</b> <b>newfilename</b>	Copy <b>filename</b> to <b>newfilename</b> , e.g. make a copy of the file with a new name.
\$ <b>rm</b> <b>filename</b>	Remove the file named <b>filename</b>
\$ <b>rmdir</b> <b>dirname</b>	Remove the directory named <b>dirname</b> , only works if directory is empty.
\$ <b>less</b> <b>filename</b>	File pager to read/display contents of file in terminal.
\$ <b>wc</b> <b>filename</b>	Get a count of number of lines, words and characters in the <b>filename</b>

## 2 Class DevBox Build System

Command	Description
\$ <b>make help</b>	Get a list of the make targets currently supported / available
\$ <b>make</b>	If no target specified, the default target <b>make all</b> is run, which will build all target executables.
\$ <b>make test</b>	Only build the <b>test</b> unit test executable.
\$ <b>make sim</b>	Only build the <b>sim</b> simulation system executable.
\$ <b>make tests</b>	Run the unit tests and the system tests. NOTE: This will first build the test executable if needed.
\$ <b>make unit-tests</b>	Run only the unit tests, showing only the failing tests by default.
\$ <b>make system-tests</b>	Run only the system tests testing the full simulation.
\$ <b>make clean</b>	Clean (remove) all build executables and build product files. Use to ensure a clean build before <b>make all</b>
\$ <b>make beautify</b>	Run the code formatter tools (uncrustify). Reformats all source files to conform to class style guidelines.
\$ <b>make docs</b>	Create project reference documentation from source file doxygen markup.
\$ <b>make submit</b>	Make a submission package of your assignment files to be submitted for grading.