$\begin{array}{c} {\rm CSCE} \ 215-{\rm Unix}/{\rm Linux} \ {\rm Fundamentals} \\ {\rm Jan} \ 2018-{\rm Syllabus} \end{array}$

Instructor	Lectures	Labs	Office Hours
Philip Conrad conradp @ cse.sc.edu Swearingen 1D39	Wenesday – Saturday 8:30-10:30am Swearingen 1D39	Wenesday – Saturday 10:30-11:40am Swearingen 1D39	Wednesday – Friday 11:40-12:30pm
-	~	~	Drop-ins are welcome but the preferred procedure is to schedule an appointment.

Description

This is an undergraduate course in Computer Science & Engineering on UNIX/LINUX. This course gives a broad view of the UNIX operating system, and provides a description of user level tools available to students in the Computer Science & Engineering Department here at the University of South Carolina. Scripting languages such as shell and Perl will be introduced, as well as programming tools and useful commands.

Prerequisites

This course requires an understanding of modern operating systems and a working knowledge of a programming language such as C, C++ or Java. Students will be asked to work on a several assignments to reinforce concepts introduced in class and a project to develop good technical writing and programming skills. Disclaimer: If you have zero computing experience but do the following:

- Immerse yourself in the material.
 - This means not taking the lecture notes as the end-all be-all on the material. There are numerous "free" materials online than can supplement your learning experience.
 - Experiment. If you finish a lab early, experiment with other commands that are not directly required in the assignment.
- Follow directions. The assignments are very particular, ensure that what you submit as a deliverable is actually what the assignment calls for.

then you will be successful.

Textbook

There is no required textbook, but I recommend the following: Sumitabha Das, Your UNIX/LINUX: The Ultimate Guide. McGraw Hill, 2012. ISBN-13: 978-0073376202 ISBN-10: 0072520426

Webpage

Information about the course, including scheduling information, assignments, and announcements, will be posted at the site:

http://www.cse.sc.edu/~conradp/teaching/215

Course Policies

• <u>Attendance</u>: You are expected to attend and participate in each **EVERY** lecture, and I will make every effort to ensure that class attendance is worth your time. Missed tests due to unexcused absences will result in a score of 0. Note that, in the instructor's experience, lack of class attendance has correlated strongly with poor grades.

Makeup exams will be allowed only with pre approval of the instructor or with an acceptable, documented reason. Acceptable reasons for makeup exams include severe illness, family emergencies, or other unavoidable events including dangerous weather conditions and car accidents. The format of makeup exams *may* differ from the format of the original exam.

- Cheating (short version): Don't.
- Cheating (long version): Academic dishonesty undermines the educational mission of the course and reflects disrespect to your classmates and to your instructor. Therefore, you are expected to practice the highest possible standards of academic integrity. The *minimum* penalty for cheating is a -50% score on the assignment. Additional, more severe penalties may be levied for repeated or egregious violations. This policy includes improper citation of sources, claiming another student's work as your own, and any other form of academic misrepresentation. Details on the University cheating policy can be found in the section on "Academic Responsibility" in the Carolina Community Handbook.

In the absence of instructions to the contrary, it *is* permissible to consult Internet resources to complete the homework assignments and projects in this class, provided that you give adequate citations of every resource you consult. However, it is *not* permissible to copy code or anything else directly from the web. Representing the work of others as your own is *never* permissible. When in doubt, ask first.

- Late assignments: Due to the high-speed nature of this course, there will be a zero tolerance policy for late assignments. Exceptions will be made only in extreme circumstances.
- <u>Mobile devices</u>: Please silence any mobile devices before coming to class. If your phone rings in class, I reserve the right to answer it for you and take a message. Likewise, if my phone rings during class time, I will allow a student to answer it.
- Computing platform: You will be expected to utilize the linux machines that the department has made available. If you prefer to use a personal computer (regardless of operating system) remember the following: I will grade your assignments on the linux machines that the university has provided.

With that being said, I am not delusional to think that all of the machines are identical. As long as your code/scripts/commands work on one of the computers listed on the departmental website under "CSE Linux Workstations" you will get full credit.

- Hint: The easiest way to prove to me that your assignment does in fact work on a department machine is to specify what machine you used when creating/testing your deliverables.
- <u>Policy changes</u>: Changes to the syllabus at the instructor's *reasonable* discretion, including changes to the evaluation and grading mechanisms, are possible but unlikely.

Grading

Your learning in this course will be evaluated based on:

- 1. *Quizzes* These quizzes are on the CSE Moodle server(https://dropbox.cse.sc.edu). These quizzes will be held at the end of lecture/beginning of lab and have the following conditions:
 - You may use any reference text.
 - You may use any electronic reference.
 - NOTE: Another person is not an accepted reference material. So do not ask your neighbor.

The goal of these quizzes is two-fold:

- To test your knowledge of the material discussed in class.
- To give you an opportunity to learn the information deemed necessary to pass this class. If you do not know or are unsure of something, **look it up**.

These assignments will account for 30% of your final grade.

- 2. Lab assignments using the department Unix machines. These are to be completed during the scheduled lab time, but I will impose a deadline of 5:00 pm. Once again, I am acting in good faith that if you have not been able to complete an assignment, it wasn't for lack of effort/dedication and you will take all possible action to learn the material and submit your assignment. These assignments will account for 40% of your final grade.
- 3. *Final project*, which covers material discussed in class and in the previous lab assignments. This is essentially a (much) more heavily weighted lab assignment and will account for **30%** of your final grade.

The following table gives upper bounds on the thresholds for determining final grades. I reserve the right to adjust these thresholds downward, but promise not to adjust them upward.

Α	$\geq 90\%$		С	$\geq 70\%$
B+	$\geq 87\%$		D+	$\geq 67\%$
В	$\geq 80\%$]	D	$\geq 60\%$
C+	$\geq 77\%$		F	< 60%

Grades will be posted on the CSE Moodle server (https://dropbox.cse.sc.edu). It is your responsibility to verify that grades are correctly recorded on this site.

The goal is to ensure that all of the grading for this course is fair and correct. If you believe there's been a mistake in grading, please bring it to my attention after class or during my office hours within one week after the exam or assignment is returned. Regrade requests after one week will be politely declined.