NET 3200	Linux Systems Administration Spring Semester 2018

Instructor	AJ Hepler Office: EH 375 Phone: 801-626-7309 E-mail: ajhepler@weber.edu Office Hours: Davis Campus: Room D2 305 Tuesday 4:00pm-5:15pm Ogden Campus: Room EH 375 Thursday 4:00pm-7:45pm
Classroom	WSU Davis Campus: D2 315
Days	Tuesday
Time	5:30pm-8:10pm
Textbook	*CompTIA Linux+ Powered by Linux Professional Institute Study Guide* (3rd Edition) by Bresnahan and Blum. (ISBN: 978-1-119-02121-6) In addition to the textbook above, you will also be using an online interactive textbook from NDG Labs. Your instructor will register you for this on the first day of class, and you will not be charged any additional fees to use this service.
Course Description	This course gives students a solid foundation in the fundamentals of the Linux operating system. Students gain system-level experience through problem-solving exercises at the command line and in the graphical user interface (GUI). By the end of the course, students will have learned the major, essential, command-line commands necessary to be accomplished users of Linux. Course Prerequisite: NET 2200
Learning Outcomes	Upon successful completion of this course, students should be proficient in the following areas: • Navigate Linux using the command line • Effectively utilize built-in Linux utilities • Manage hardware and software • Configure and maintain networking features • Write custom shell scripts • Manipulate and utilize prebuilt scripts • Manage system services, permissions, files, and directories • Implement security features and configure proper security measures
Class Information	Class will consist of lectures, discussions, assignments, interactive lab exercises, quizzes and exams. Questions and comments are encouraged. It is expected that students will read the material related to each week's coursework. It is also expected that students will read the discussion posts and pay attention to any announcements posted throughout the semester.
Assignments, Quizzes, and Exercises	Assignments for the class accessible at the beginning of each week on Canvas. Assignments will consist of quizzes, lab exercises, and review questions. Due dates will be available inside each assignment's instructions on Canvas. Late assignments may be accepted with a 10% penalty for up to an additional week to provide for unforeseen circumstances. Assignments submitted beyond one week late will not be accepted.

Exams

There will be two exams for the class; a midterm and a final. The exams will be administered via the Chi Tester and count for 30% of the final grade. Review sessions will be held during or prior to each exam week to help you prepare for the exams.

Accommodations for disabilities

Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Service Center.

Grading

Final grades will be weighted based on the following criteria:

Review Questions	10%
Quizzes	10%
Lab Exercises	50%
Exams	30%

The final grade will be given based on points accumulated through assignments, quizzes, exams and labs. Standard grading will apply:

94-100	A		74-76	C
90-93	A-		70-73	C-
87-89	B+		67-69	D+
84-86	B		64-66	D
80-83	B-		60-63	D-
77-79	C+		0-59	E

Allocated Time

You should anticipate spending two to three hours of study per week for each credit hour of a university course. Computer and programming classes typically require time in the upper range.

Policies

Exams can only be taken on the dates given unless arrangements are made to take them ahead of time. If you know you are going to be absent at any point during the semester, notify your instructor so you can keep up with the material covered in class.

Academic Integrity (Cheating)

Students are expected to maintain academic ethics and integrity in regards to performing their own work. The WSU Student Code states clarifies cheating. Cheating, which includes but is not limited to:

1. Copying from another student's test paper
2. Using materials during a test not authorized by the person giving the test
3. Collaborating with any other person during a test without authority
4. Knowingly obtaining, using, buying, selling, transporting, or soliciting in whole or in part the contents of any test, without authorization of the appropriate official
5. Bribing any other person to obtain any test
6. Soliciting or receiving unauthorized information about any test
7. Substituting for another student or permitting any other person to substitute for oneself to take a test
8. Plagiarism, which is the unacknowledged (uncited) use of any other person or group's ideas or work. This includes purchased or borrowed papers.
9. Collusion, which is the unauthorized collaboration with another person in preparing work offered for credit
10. Falsification, which is the intentional and unauthorized altering or inventing of any information or citation in an academic exercise, activity, or record-keeping process

Academic Integrity (Cheating) Continued…	11. Giving, selling or receiving unauthorized course or test information 12. Using any unauthorized resource or aid in the preparation or completion of any course work, exercise or activity 13. Infringing on the copyright law of the United States which prohibits the making of reproductions of copyrighted material except under certain specified conditions School of Computing policy dictates that any verifiable evidence of student academic cheating, as defined and determined by the instructor, will result in: 1. An automatic failing grade for the class 2. A report to the Dean of Students that will include the student's name and a description of the student's dishonest conduct Further disciplinary action may be taken by the University as it deems appropriate. You can find more information about academic honesty in the Weber State Policies and Procedures Manual. http://www.weber.edu/ppm/Policies/6-22_StudentCode.html If you are not sure whether or not you might violate one of these stipulations, check with your instructor prior to submitting any assignments with questionable content. Refrain from the urge to copy and paste content from the web or anywhere else. A poor grade on a single assignment is much better than a failing grade for the course.
Course Fees	Course fees for the NET major are designed to cover the costs of lab equipment maintenance and replacement including desktop and server computer systems and software; consumable materials and supplies; and support for lab aides, student tutors, and online instructional resources.
Emergency Closure	In the event of an emergency or campus closure, please check Canvas for more information. You may want to sign up for Weber State's Code Purple if you haven't done so already to be alerted when these things happen. (https://www.weber.edu/codepurple)

Tentative Class Schedule and Course Outline (subject to change)

Week of	Topic	Coursework
January 8 Week 1	Course Overview and Introduction to Linux	Week 1 Assignments
January 15 Week 2	Using Linux	Week 2 Assignments
January 22 Week 3	Command Line Introduction	Week 3 Assignments
January 29 Week 4	Working with Linux Command Line Tools	Week 4 Assignments
February 5 Week 5	Getting Help and Using `man`	Week 5 Assignments
February 12 Week 6	Working with Files, Directories, and Archives	Week 6 Assignments
February 19 Week 7	Pipes, Redirection, and Regular Expressions	Week 7 Assignments
February 26 Week 8	Midterm Review	**Midterm Exam** **(Available Feb 26 – Mar 3)**
March 5 Week 9	**Spring Break – No Classes**	Spring Break – No Assignments
March 12 Week 10	Developing and Working with Scripts	Week 10 Assignments
March 19 Week 11	Managing Hardware	Week 11 Assignments
March 26 Week 12	Working with Software and Packages	Week 12 Assignments
April 2 Week 13	Networking and Basic System Security	Week 13 Assignments
April 9 Week 14	Ownership and Permissions	Week 14 Assignments
April 16 Week 15	Final Exam Review	Final Exam Review

April 23 Week 16	**Finals Week (no classes)**	**Final Exam** **(Available Apr 21-Apr 27)**