NET 3200	Linux Systems Administration Spring Semester 2020

Instructor	AJ Hepler Office: D2 308D (Davis Campus) Phone: 801-395-3433 E-mail: ajhepler@weber.edu Office Hours: Davis Campus: Tue, Weds 3:30pm-5:30pm, Thur 4:30pm-5:30pm Online: By appointment
Classroom	WSU Davis Campus: D2 311
Days	Tuesday
Time	5:30pm-6:45pm
Textbook	*NDG Introduction to Linux 1* (1st Edition). (ISBN: 978-1946780041) The textbook for this course is a digital service that can be purchased directly from the publisher's website. You will be prompted to pay for the text when you first try to access the curriculum on the https://www.netacad.com website. You may also purchase an access code at the following address: https://content.netdevgroup.com/buy/60434/, or make arrangements to purchase the code through the Weber State bookstore.
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 • Manage system services, permissions, files, and directories
Class Information	This class will be delivered via a hybrid instructional model. This means that there will be an online component in addition to an in-class component. Students are expected to watch the videos and read the materials associated with each week located in Canvas. Class time will be spent working on lab exercises that are due each week, and additional demonstration will be provided as applicable. Questions and comments are encouraged. It is expected that students will read the material related to each week's coursework and pay attention to any announcements posted throughout the semester.
Assignments, Quizzes, and Exercises	Assignments for the class will be accessible at the beginning of each week on Canvas. Assignments will consist of review quizzes and lab exercises. 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.

You will be required to complete quizzes inside of the Cisco Networking Academy online system located at https://www.netacad.com/, and you will submit your scores in Canvas through Weber State. The scores and grade book you see on the Cisco Networking Academy do not accurately reflect your grade in the Weber State course as you will be completing exercises outside of the Networking Academy. Your grade will be tracked via Canvas at Weber State instead.

Attendance is taken at the beginning of each class period and will result in a Canvas assignment being created to track your attendance percentage. This assignment does not have any impact on your grade, which means you will not be penalized if you miss a class period.

Exams

There will be two exams for the class; a midterm and a final. The exams will be administered via the Chi Tester and must be taken at one of the authorized Weber State testing centers (https://www.weber.edu/testingcenter/). Exams must be taken during the exam period provided and cannot be taken late.

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:

Quizzes	10%
Assignments and Labs	40%
Exams	50%

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 and cannot be taken late. 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

Academic Integrity (Cheating) Continued…	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 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 06 Week 1	Accessing the Linux Environment	Lab Assignment 1
January 13 Week 2	Configuring the Linux Shell	Chapters 1, 2. and 3 Quizzes Lab Assignment 2
January 20 Week 3	Working with Files	Chapters 4 and 5 Quizzes Lab Assignment 3
January 27 Week 4	Using Text Utilities	Chapters 6, 7, and 9 Quizzes Lab Assignment 4
February 03 Week 5	Regular Expressions, Streams, and Redirection	Chapters 8 and 10 Quizzes Lab Assignment 5
February 10 Week 6	Archiving and Managing Processes	Chapters 11 and 12 Quizzes Lab Assignment 6
February 17 Week 7	File Permissions and Links	Chapters 13 and 14 Quizzes Lab Assignment 7
February 24 Week 8	Midterm Exam Review **No class Tuesday (Instructor out-of-town)**	**Midterm Exam**
March 02 Week 9	**Spring Break (no classes held)**	**Spring Break (no assignments)**
March 09 Week 10	Introduction to Bash Scripting	Lab Assignment 8
March 16 Week 11	Hardware, Booting, and Runlevels	Chapters 15, 16, 17, and 18 Quizzes Lab Assignment 9
March 23 Week 12	Creating and Mounting Partitions	Chapters 19, 20, and 21 Quizzes Lab Assignment 10
March 30 Week 13	Maintaining File Systems and Virtualization	Chapters 22, 23, and 26 Quizzes Lab Assignment 11
April 06 Week 14	Package Management	Chapters 24, and 25 Quizzes Lab Assignment 12
April 13 Week 15	Final Exam Review	Final Exam Review
April 20 Week 16	**Finals Week – No Classes**	**Final Exam**