

NET 2210	Linux Systems Administration Fall Semester 2021
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Instructor	AJ Hepler Office: D2 308N (Davis Campus) Phone: 801-395-3433 E-mail: ajhepler@weber.edu Virtual Office Hours: Tuesday, Wednesday 2:30pm-5:00pm (Please email me for a Zoom link)
Classroom	WSU Davis Campus: CAE 146
Day(s)	Wednesday
Time	7:30pm-8:45pm
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: <ul style="list-style-type: none"> • 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	Students are expected to watch the videos and read the materials associated with each week located in Canvas. Questions and comments are strongly 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. This course is set up as a hybrid course, which means there will be an online component and an in-class component associated with the course. Time in class will be used as in-class lab time allowing you to work on assignments that are due and ask questions on topics that may be unclear. You will not be required to attend class other if you are able to complete assignments outside of class and do not need to make use of the in-class lab time.
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 additional exercises outside of the Networking Academy. Your grade will be tracked on Canvas instead.																																				
Exams	The course will consist of two exams; a midterm and a final. The exams will be administered via the Chi Tester and will be proctored by the Weber State testing center. Exams must be taken during the exam period provided and cannot be taken late. Midterm and final exam review sessions will be conducted to help prepare for these 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	<p>Final grades will be weighted based on the following criteria:</p> <table border="1" data-bbox="475 646 927 753"> <tr> <td>Quizzes</td> <td>10%</td> </tr> <tr> <td>Assignments and Labs</td> <td>40%</td> </tr> <tr> <td>Exams</td> <td>50%</td> </tr> </table> <p>The final grade will be given based on points accumulated through assignments, quizzes, exams and labs. Standard grading will apply:</p> <table border="1" data-bbox="475 888 927 1098"> <tr> <td>94-100</td> <td>A</td> <td></td> <td>74-76</td> <td>C</td> </tr> <tr> <td>90-93</td> <td>A-</td> <td></td> <td>70-73</td> <td>C-</td> </tr> <tr> <td>87-89</td> <td>B+</td> <td></td> <td>67-69</td> <td>D+</td> </tr> <tr> <td>84-86</td> <td>B</td> <td></td> <td>64-66</td> <td>D</td> </tr> <tr> <td>80-83</td> <td>B-</td> <td></td> <td>60-63</td> <td>D-</td> </tr> <tr> <td>77-79</td> <td>C+</td> <td></td> <td>0-59</td> <td>E</td> </tr> </table>	Quizzes	10%	Assignments and Labs	40%	Exams	50%	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
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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	<p>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.</p> <p>Any lectures recorded and posted on Canvas are for the exclusive use of students enrolled in the class and may not be shared without previous authorization. Violations will be referred to the Dean of Students for adjudication under PPM 6-22, Student Code.</p> <p>Attendance is taken at the beginning of each class period and will result in a Canvas assignment being created to track your attendance. This assignment does not have any impact on your grade, which means you will not be penalized if you miss a class period.</p>																																				
Academic Integrity (Cheating)	<p>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:</p> <ol style="list-style-type: none"> 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 																																				

	<ol style="list-style-type: none"> 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 <p>School of Computing policy dictates that any verifiable evidence of student academic cheating, as defined and determined by the instructor, will result in:</p> <ol style="list-style-type: none"> 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 <p>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</p> <p>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.</p>
Course Fees	<p>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.</p>
Emergency Closure	<p>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)</p>

Tentative Class Schedule and Course Outline (subject to change)

Week of	Topic	Coursework
August 30 Week 1	Accessing the Linux Environment	Lab Assignment 1
September 6 Week 2	Configuring the Linux Shell	Chapters 1, 2, and 3 Quizzes Lab Assignment 2
September 13 Week 3	Working with Files	Chapters 4 and 5 Quizzes Lab Assignment 3
September 20 Week 4	Using Text Utilities	Chapters 6, 7, and 9 Quizzes Lab Assignment 4
September 27 Week 5	Regular Expressions, Streams, and Redirection	Chapters 8 and 10 Quizzes Lab Assignment 5
October 4 Week 6	Archiving and Managing Processes	Chapters 11 and 12 Quizzes Lab Assignment 6
October 11 Week 7	File Permissions and Links	Chapters 13 and 14 Quizzes Lab Assignment 7
October 18 Week 8	Instructor Out-of-Town – No Class Midterm Exam Review	Midterm Exam
October 25 Week 9	Introduction to Bash Scripting	Lab Assignment 8
November 1 Week 10	Hardware, Booting, and Runlevels	Chapters 15-18 Quizzes Lab Assignment 9
November 8 Week 11	Partitions and File Systems	Chapters 19-23 Quizzes Lab Assignment 10
November 15 Week 12	Managing Users and Groups	Lab Assignment 11
November 22 Week 13	Package Management and Special Permissions	Chapters 24, and 25 Quizzes Lab Assignment 12
November 29 Week 14	Virtualization	Chapter 26 Quiz Lab Assignment 13
December 6 Week 15	Final Exam Review	
December 13 Week 16	Finals Week – No Classes Held	Final Exam