NET 3200	Linux Systems Administration	
NET 3200	Fall Semester 2017	

	AA II D. I				
Instructor	Matt Paulson				
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	SLCC Office: BB 226G				
	Phone: 801-395-3438 (available <b>TH ONLY</b> )				
	Email: mattpaulson@weber.edu				
	WSU Davis Office Hours: TH 5:30 – 8:00 PM				
	SLCC Office Hours: MW 4:00 – 5:15 PM				
Classroom	WSU Davis D2 315				
Days	TR				
Time	4:00 – 5:15 PM				
Texts	Selected Readings				
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.				
Prerequisites	NET 2200				
Objectives	At the completion of this class the students will be able to:				
Objectives	1. View command help				
	2. Manage files and directories				
	3. Create hard and symbolic links				
	4. Configure the boot file				
	5. Manage system and service runlevels				
	6. Stop, restart, and manage services				
	7. Shut down the system				
	8. Manage users and groups				
	9. Manage passwords				
	10. Format a hard disk, and mount a volume				
	11. Manage quotas				
	12. Manage file and directory permissions				
	13. Manage printing				
	14. Manage network interfaces				
	The student will also:				
	<ul> <li>possess an ability to analyze a problem, and identify and</li> </ul>				
	define the computing requirements appropriate to its solution.				
	<ul> <li>possess an ability to design, implement, and evaluate a</li> </ul>				
	computer-based system, process, component, or program to meet desired needs.				

	recognize the need for an ability to engage in continuing				
	professional development.				
	possess an ability to use current techniques, skills, and tools				
	necessary for computing practice.				
Class	Class will consist of lectures, discussions, assignments, quizzes and				
	exams. Questions and comments are encouraged. It is expected that				
	students will read the material related to each week's coursework.				
	Attendance and participation will account for 10% of your grade and				
	will be based upon the completion of in-class activities.				
Labs and Assignments	There will be several in-class labs that you are expected to				
	participate in. These labs will be vital for you to exhibit				
	understanding of the course material, and to prepare you for mid-				
	term exams. While these labs will not be graded, your participation				
	in them is highly encouraged.				
Quizzes and Exams	There will be 3 quizzes given in-class, as noted on the tentative				
	schedule. The quizzes will cover class material presented between				
	each quiz instance. These quizzes will account for 20% of the total				
	grade.				
	There will be 2 exams given, as noted on the tentative schedule. The				
	mid-term exam will cover all class material presented to date. The				
	final exam will cover all material. These exams will account for 40%				
	of the total grade.				
	Both the quizzes and exams will be objective quizzes, in multiple-				
	choice, true/false, and matching formats.				
Readings	You will be expected to read and critique 4 current research articles				
ricadings	related to the current class topic. For each reading critique, a set of				
	articles will be provided from which you may select one article of				
	interest. The critique should consist of a 1-2 paragraph summary of				
	the article followed by a paragraph discussing the strengths of the				
	article and another paragraph discussing the weaknesses or				
	shortcomings of the article. A final paragraph should include a discussion on how the article could be extended in the future. The				
1 . 5 !	reading critiques will account for 20% of your final grade.				
Late Policy	Late work will be accepted with a 20% penalty per day for up to				
	three days to provide for unforeseen circumstances.				
Accommodations for	Any student requiring accommodations or services due to a disability				
Disabilities	must contact Services for Students with Disabilities (SSD) in room				
	221 of the Student Services Center at the Davis Campus. SSD can also				
	arrange to provide course materials (including this syllabus) in				
	alternative formats if necessary. You can also call 801-395-3524 or				
	visit http://www.weber.edu/ssd for more details.				
Grading	Reading Critiques 20%				
	In-Class 20%				

	Quizzes		20%		
	Exams		40%		
	The final grade will be given based on points accumulated through quizzes, assignments and exams. Standard grading will apply:				
	94 – 100	Α	74 – 76	С	
	90 – 93	A-	70 – 73	C-	
	87 – 89	B+	67 – 69	D+	
	84 – 87	В	64 - 67	D	
	80 – 83	B-	60 – 63	D-	
	77 – 79	C+	00 – 59	E	
Allocated Time	You should anticipate spending two to three hours of study per week				
		-		ty course. Computer and	
				quire time in the upper range.	
Canvas	<del> </del>			ine component via the Canvas	
			_	og on to the course, go to	
		_	•	low the login instructions. You will	
	• • •			d password to log in. You should	
	have already received this information from the admissions				
	department. If you still have problems getting into the course, please				
	email me and I will see if I can resolve the issue.				
	If you are unfamiliar with Canyas, so to https://learn				
	If you are unfamiliar with Canvas, go to https://learn- wsu.uen.org/courses/8878 for a student orientation. Click on the				
	links on the left side of the page. PDF help documents are available at				
	http://departments.weber.edu/ce/distancelearning/CanvasFAQ.aspx				
				-, a.c.a.	
Policies		=		lays given unless arrangements are	
6 5			ahead of time		
Course Fees				r the costs of lab equipment	
			•	cluding desktop and server	
		-		consumable materials and supplies;	
	and support	t for lab	aides, studen	t tutors, and online instructional	
	resources.				
Academic Honesty		•		n academic ethics and integrity in	
	regards to performing their own work. The WSU Student Code states clarifies cheating.				
	1. Chea	_		but is not limited to:	
	a.	Сору	ring from anot	her student's test paper;	

Using materials during a test not authorized by the b. person giving the test; Collaborating with any other person during a test without authority; Knowingly obtaining, using, buying, selling, transporting, or soliciting in whole or in part the contents of any test, without authorization of the appropriate official; e. Bribing any other person to obtain any test; f. Soliciting or receiving unauthorized information about any test; Substituting for another student or permitting any other person to substitute for oneself to take a test. 2. Plagiarism, which is the unacknowledged (uncited) use of any other person or group's ideas or work. This includes purchased or borrowed papers; Collusion, which is the unauthorized collaboration with another person in preparing work offered for credit; Falsification, which is the intentional and unauthorized altering or inventing of any information or citation in an academic exercise, activity, or record-keeping process; 5. Giving, selling or receiving unauthorized course or test information; Using any unauthorized resource or aid in the preparation or completion of any course work, exercise or activity; Infringing on the copyright law of the United States which prohibits the making of reproductions of copyrighted material except under certain specified conditions; NMT Department 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 and 2) a report to the Dean of Students that will include the student's name and a description of the student's dishonest conduct. **Emergency Closure** Emergency closures will be announced via Code Purple. If WSU Policy campuses are closed for the day, this class will not be held. If for any reason the university is forced to close for an extended period of time, we will conduct our class through Canvas as an online course. Look for announcements through Canvas Announcements and Canvas Conversations. **Contacting Matt** Your best bet to contact me will be through the Canvas portal or email directly. I will do my best to return your message within 1 business day. I consider my office hours to be "drop-in" hours; feel free to stop by at your convenience, or contact me to set an appointment.

## TENTATIVE Class Schedule and Course Outline

Week of	Topic Topic	Coursework		
28 Aug	Introduction			
Week 1	Review of Fundamental Security Concepts			
	Exploring the Linux Command Line Interface			
4 Sept	Command Line Interface (cont)			
Week 2	Managing Software			
11 Sept	Configuring Hardware	Reading #1		
Week 3	Comigunity Hardware	Reading #1		
18 Sept	Managing Files	Quiz #1		
Week 4	Wandship Hes	Quiz III		
25 Sept	LAB: CLI, Hardware, Software, Files			
Week 5	, ,			
2 Oct	Booting Linux and Editing Files	Reading #2		
Week 6				
9 Oct	X Windows and You	Quiz #2		
Week 7	Administering a Linux System			
16 Oct	Administering a Linux System	Midterm Exam 1		
Week 8				
23 Oct	Configuring Basic Networking			
Week 9				
30 Oct	LAB: Editing Files, X Windows, Administering,			
Week 10	Networking			
	Scripts, Email, Databases (cont)			
6 Nov	Writing Scripts, Configuring Email, and Using	Reading #3		
Week 11	Databases			
13 Nov	Scripts, Email, Databases (cont)	Quiz #3		
Week 12	TUANICON (INC., NO. 6) A 66			
20 Nov	THANKSGIVING – NO CLASS			
Week 13	Securing Your System			
27 Nov	Securing Your System (cont)	Reading #4		
Week 14				
4 Dec	LAB: Scripts, Email, Databases, Security			
Week 15	Pavious Final Evers	Final Evam		
11 Dec	Review Final Exam	Final Exam		
Week 16				