College of the Mainland

ITSC-1391-101HY-SP2024
Special Topics in Computer and Information Sciences, General Linux
Spring 2024
Tuesday 1:30PM-3:50PM – STEAM 138

Instructor Information: Joshua Mays, jmays4@com.edu, 409-933-8958

Student Hours and Location: Monday: 10:30 AM - 12:00 PM
Tuesday: 10:00 AM - 11:30 AM
Wednesday: 11:30 AM - 1:00 PM
Thursday: 10:00 AM - 11:30 AM
Friday: 9:30 AM - 11:00 AM
*Please check Brightspace announcements for required updates

Required Textbook:

Testout.com Linux Pro
http://www.testout.com/courses/linux-pro
ISBN: 978-1-935080-38-1

Course Description: Students will receive an introduction to the open-source Linux operating system, emphasizing the use of the GUI console interface. This course includes Linux installation, basic administration, utilities and commands, upgrading, networking, security, and application development. They emphasized hands-on setup, administration, and management of Linux. Instruction also covers maintaining and securing reliable Linux systems. The student will install, administer, and manage a secure and reliable Linux system; demonstrate proficiency with Linux Utilities, commands, and applications; demonstrate effective Linux operation system setup; identify and resolve security-based issues; and identify networking principles necessary to integrate a Linux system into an existing network.

Course requirements: Students will need to utilize the most currently supported version of the Microsoft Office suite to include Office 2010 or later. Students will need access to the Internet with a minimum bandwidth speed of 1MB/768KB (standard DSL or faster).

Determination of Course Grade/Detailed   Grading Formula:

	#	Points	Total
Discussion Topics:	5	40	200
Testout Simulations:			315
Testout Practice Questions:			270
Course Evaluation:	1	15	15
Final Exam:	1	200	200
Total			1000

Grading Scale:

A: Final Average of 1345-1495
B: Final Average of 1196-1330
C: Final Average of 1121-1181
D: Final Average of   1046-1106
F: Final Average of 0-1031

Late Work / Make-Up Policy: Late work will be accepted for one week after the due date with a points deduction of -20%. Assignments are then removed and a grade of 0 is assigned.

Attendance Policy: Students are expected to attend all lectures (online or on-ground) and labs (online or on-ground). Students not able to attend a session are required to notify the instructor no later than 2 hours before the start of the session. Students who miss more than 35% of the total session times will be considered for student referral and possibly dropped from the course. Students will need to log into the D2L Brightspace system at least 1 time per week.

Communicating with your instructor: ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means.

Student Learner Outcome	Maps to Core Objective	Assessed via this Assignment
1. Install, administer, and manage a Linux system	Critical Thinking Skills	Chapter 9 & 10 Lecture / Lab
2. Demonstrate proficiency with Linux utilities, commands, and applications	Communication Skills	Chapter 10 & 11 Lecture / Lab
3. Identify and resolve security-based issues	Critical Thinking Skills	Chapter 15 Lecture
4. Integrate a Linux system into an existing network	Critical Thinking Skills	Chapter 12 Lecture

Academic Dishonesty: Any incident of academic policy will be dealt with by college policy and the Student Handbook. Academic dishonesty – such as cheating on exams is an extremely serious offense and will result in a **grade of zero** on that exam and the student will be referred to the Office of Student Conduct for the appropriate disciplinary action.

Student Concerns: If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact the Math Department Chair, Leslie Richardson, at lrichardson@com.edu or 409-933-8244.

Course Outline:

Week(s)	Chapter – Topic	Exam
1	Introduction	
2	Using Linux	
3	Installation and Localization	
4	Boot and Shutdown	
5	Graphical User Interfaces and Desktop	
6	Software Installation	
7	Users and Groups	
8	Disk and File System Management	
9	Hardware Installation	
10	Processes and System Services	
11	System Monitoring	
12	Networking	
13	Cloud, Containers and Virtualization	
14	Scripting and Automation	
15	Security	
16	Final Exam Review	Final Exam

Institutional Policies and Guidelines

Grade Appeal Process: Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook https://www.com.edu/student-services/docs/Student_Handbook_2023-2024_v2.pdf. *An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.*

Academic Success & Support Services: The College of the Mainland is committed to providing students with the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and Student Services. Please discuss any concerns with your faculty or an advisor.

ADA Statement: Any student with a documented disability needing academic accommodations is requested to contact Kimberly Lachney at 409-933-8919 or klachney@com.edu. The Office of Services for Students with Disabilities is in the Student Success Center.

Textbook Purchasing Statement: A student attending the College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Withdrawal Policy: Students may withdraw from this course for any reason before the last eligible day for a "W" grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from the 1st 8-week session is February 28. The last date to withdraw from the 16-week session is April 22. The last date to withdraw for the 2nd 8-week session is May 1. The last date to withdraw for the spring mini session is May 29.

FN Grading: The FN grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN grade.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer for you to meet your academic goals.

Resources to Help with Stress:
If you are experiencing stress or anxiety about your daily living needs including food, and housing or just feel you could benefit from free resources to help you through a difficult time, please click here https://www.com.edu/community-resource-center/. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at deanofstudents@com.edu or communityresources@com.edu.