

Linux Installation and Configuration (ITSC 1316 1A1)



**LAMAR INSTITUTE
OF TECHNOLOGY**

INSTRUCTOR CONTACT INFORMATION

Instructor: Steven Veron
Email: sdveron@lit.edu
Office Phone: 409-351-5961
Office Location: N/A
Office Hours: N/A

CREDIT

3 Semester Credit Hours (2 hours lecture, 4 hours lab)

MODE OF INSTRUCTION

Hybrid

PREREQUISITE/CO-REQUISITE:

None

COURSE DESCRIPTION

Introduction to Linux operating system. Includes Linux installation, basic administration, utilities and commands, upgrading, networking, security, and application installation. Emphasizes hands-on setup, administration, and management of Linux.

COURSE OBJECTIVES

Upon completion of this course, the student will be able to

- Install, administer, and manage a Linux system
- Demonstrate proficiency with Linux utilities, commands, and applications
- Identify and resolve security-based issues
- Integrate a Linux system into an existing network

REQUIRED TEXTBOOK AND MATERIALS

1. Cengage MindTap access to CompTIA Linux+ Guide to Linux Certification, 5e
 - a. How to buy your Course Materials
 1. Sign into Blackboard and click on this course.
 2. Click on the Cengage link: Getting Started in the Getting Started with Cengage MindTap section.
 3. Create or sign into your Cengage account to access or purchase the materials for this course.

Approved: **Initials/date**

NOTE: If you are taking additional courses that use Cengage materials, you can save by purchasing a Cengage Unlimited plan, which gives you access to all Cengage e-Textbooks and online homework platforms for one price. Visit cengage.com/unlimited or your campus bookstore to learn more.

- b. Beware of sites that are selling discounted codes. These sources are likely unauthorized sellers who have acquired access codes illegally, and transactions with such sources may pose a risk to your personal information.
- c. Need help? Visit startstrong.cengage.com for step-by-step registration instructions and videos.

2. Cyber Security and Network Technology students are required to have one 64 GB or larger capacity USB Flash Drive to be used for the duration of the time to complete their respective degree.

3. Computer with Internet access

ATTENDANCE POLICY

Three absences are allowed. If a student is tardy to class or departs early three (3) times, it will be equal to one (1) absence. Each absence beyond three absences will result in a 2-point deduction from your final grade

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

COURSE CALENDAR

DATE	TOPIC	ASSIGNMENTS	ASSIGNMENTS DUE DATE
Week 1	Class Introductions, Syllabus	Pre-course Assessment	1/23/24
Week 2	Unit 1, Introduction to Linux	Unit 1	1/30/24
Week 3	Unit 2, Linux Installation and Usage	Unit 2	2/6/24
Week 4	Unit 3, Exploring Linux Filesystems	Unit 3	2/13/24
Week 5	Unit 4, Linux Filesystem Management & Unit 5, Linux Filesystem Administration	Units 4 & 5	2/20/24
Week 6	Test, Units 1-5	Test, Units 1-5	2/21/24
Week 7	Unit 6, Linux Server Deployment, and Unit 7, Working with the BASH Shell	Units 6 & 7	3/5/24
Week 8	Unit 8, System Initialization, X Windows, and Localization	Unit 8	3/19/24
Week 9	Spring Break – No Class		
Week 10	Unit 9, Managing Linux Processes & Unit 10,	Units 9 & 10	3/26/24

	Common Administrative Tasks		
Week 11	Test, Units 6-10	Test, Units 6-10	3/27/24
Week 12	Unit 11, Compression, System Backup, and Software Installation	Unit 11	4/9/24
Week 13	Unit 12, Network Configuration & Unit 13, Configuration Network Services and Cloud Technologies	Units 12 & 13	4/16/24
Week 14	Unit 14, Security, Troubleshooting and Performance	Unit 14	4/23/24
Week 15	Test, Units 11-14	Test, Units 11-14	4/24/24
Week 16	Study		
Week 17	Final Exam		5/8/24

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- Virtual Machine Labs 40%
- Chapter Quizzes 20%
- Chapter Tests 20%
- Final Exam 20%

GRADE SCALE

- 90-100 A
- 80-89 B
- 70-79 C
- 60-69 D
- 0-59 F

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <https://lit.edu/online-learning/online-learning-minimum-computer-requirements>. A functional broadband internet connection, such as DSL, cable, or Wi-Fi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504, and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute

of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](http://Special Populations - Lamar Institute of Technology (lit.edu)).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand, and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES/INFORMATION

All assignment due dates are indicated in the Cengage course for this class. Any work submitted after the assigned due date will receive a 25-point deduction.

Tests are assigned a due date and must be completed by that date. Tests will not be reactivated after the due date.

All assignments must be submitted via Cengage unless specified by your instructor. Assignments submitted through any other method will receive a "0".

Grades for assignments may be accessed through the Gradebook in Cengage. Each assignment shows your grade and any grading comments made on your assignment.

CERTIFICATION REQUIREMENT

CSNT majors are required to earn certification in one of the following areas prior to graduation.

- A+ Certification
- Network+ Certification
- Security+ Certification
- Linux+ Certification
- Cisco Certified Network Associate (CCNA)