

Oklahoma State University Institute of Technology

Online Common Syllabus

Summer 2018

ITD 3123 Linux Workstation & Server OS

This course focuses on Linux workstation and server Linux operating systems. Topics include: operating system installation, configuration, maintenance, and security. Theory/Lab.

Course Purpose

This course teaches the student advanced topics of setting up, managing and using Linux workstation and Servers.

Type of course: Theory/Lab.

Credit Hours: 3; Total hours of theory per semester: 35;

Total hours of lab for the semester: 40; Total hours of clinical per semester: 0.

Class length - Fully Online

Prerequisites: ITD2223

Instructor Name: Jim Strother

Instructor Phone: (918) 293-4798

Office: EET/IT - Room 15E

Instructor email: james.strother@okstate.edu

Contact: My preferred method of contact is email. Please allow 24-48 hours to return your correspondence during the normal work week.

Instructor's Office Hours:

Monday/Wednesday – 8:00am – 9:20am, 3:00pm to 3:30pm

Tuesday/Thursday – 8:00am to 9:20am, 1:30pm to 3:30pm

Or by appointment

School Name: Information Technologies

School's Main Phone: 918-293-5440

Required Text, References, and Materials

Texts: *Linux Operations and Administration*, 1st Edition. Alfred Basta; Dustin A. Finamore; Nadine Basta; Serge Palladino
ISBN-10: 1-111-03530-X
ISBN-13: 978-1-111-03530-3

References: Assorted Subject Videos

Materials: Computer with broadband Internet access and the ability to install software.

Uniform/Tools: None

Estimated Cost for Materials: \$ 155.00

Estimated Cost for Uniform/Tools: \$ 00.00

ONLINE COURSE INTERACTION

OSUIT requires all online courses to include interaction between students, peers and instructors. Our online courses use a variety of tools to build a community of learners and strengthen engagement between students and their peers, as well as between students and the instructor. Communication tools used in this course may include Discussion, News, Blackboard Collaborate, and Email. Read the syllabus completely to determine which of these methods you, your classmates and your instructor will use for interaction.

Course Activities

In this course students will:

- Install the Linux workstation and server operating systems
- Use operating systems in a virtual environment
- Virtualize server installs
- Install Apache web services as well as other server services
- Explore the command line environment for Linux
- Upgrade Linux servers to the current version available
- Use monitoring tools for Linux
- Explore Linux GUI Interfaces

Evaluation - Grades will be based on the quality and completion of these tasks:

Discussion Responses	15%
*Weekly Assignments.....	35%
Professional Development.....	5%
Digital Course Portfolio.....	5%
Quizzes (min. 4)	20%
Mid Term Exam	10%
Final Exam	10%
TOTAL.....	100%

OSUIT Grading Scale
A = 90%-100%
B = 80%-89%
C = 70%-79%
D = 60%-69%
F = 59% & below

*The student's grade for this assignment will be used in the university's assessment of student learning. A 70% competency or higher receives a Pass rating. This Pass/Fail rating is independent of the student's course grade.

Online Course Interaction

This online/hybrid course uses a variety of tools to build a community of learners and strengthen communication between students and their peers, as well as between students and the instructor. Through the use of these tools, you will be able to interact with others in the virtual classroom. Communication tools used in this course include Discussion, News, Blackboard Collaborate, and Email.

Interaction with Your Peers

Each week, you will be required to post one original post and responses to your peers on the discussion board within the Online Classroom.

- Your first post must be in by Wednesday. Each day it is late you will lose 10 points
- You must reply to at least two other student posts by Sunday. Each missing post will cost 10 points
- No "I agree" or "Me too" post will count, you must contribute to the conversation
- All posts must be of a respectful nature to other students or the instructor. Failure to abide by this will result in a "0" for the week

Interaction with Your Instructor

In addition to online office hours (as indicated on the first page of this syllabus), you can also expect me to provide:

- communication about student course performance during the scheduled Faculty contact sessions
- additional information and updates about the course as needed through e-mails and the News feature in the Online Classroom (D2L)
- detailed analysis, feedback and explanation of grades according to the following schedule
 - Daily and/or weekly quizzes, small weekly assignments and similar type projects: Normal return time to student by next class meeting or no later than one (1) week.
 - Extensive assignments, large lab projects, extensive quizzes, exams and similar type projects: Normal return time to students in one (1) to two (2) weeks.

You may contact me by email at any time with questions or concerns about your course; however, please allow 24-48 hours to receive a reply to your correspondence on weekdays. Make sure to include your class name in the subject. I may not be available to respond to your correspondence on the weekend, so please do not leave your coursework until the last possible moment in case you need assistance.

Recommended Student Competencies/skills

- Able to use the VMware environment virtual machines via web interface
- Interact in class or online discussion topics
- Provide answers to questions posed using provided templates

Authorized Tools

Students may use any/all course materials, including books and notes, while participating in classroom activities. All quizzes and written assignments are to be completed independently; no collaboration with classmates is permitted and any instance of such will be considered academic dishonesty.

Late Work

Turning in your properly-executed work early is always acceptable. All exams, assignments, papers and projects must be completed and submitted by the specified due date; late work will not be accepted after the due date unless prior authorization is given.

Testing

Quizzes may be timed or proctored during this course.

Syllabus Attachment

View the Syllabus Attachment, which contains other important information, by visiting http://osuit.edu/center/student_syllabus_information

Course Schedule			
Schedule	Topics	Assignment	Due Date
Module 1	Introduction to Linux – Chapters 1 - 2	Quiz 1 – Chapters 1 and 2 Discussion Posts Learning Assignments	05/06
Module 2	Managing Files and Directories – Chapter 3	Quiz 2 – Chapter 3 Discussion Posts Learning Assignments	05/13
Module 3	Creating and Editing Files with Text Editors, creating Shell Scripts and Displaying File Contents. Chapters 4 - 5	Quiz 3 – Chapters 4 and 5 Learning Assignments Discussion Posts	05/20
Module 4	Managing Data: Backup and Recovery Processes, managing Users and Groups. Chapters 6 - 7	Quiz 4 – Chapters 6 and 7 Discussion Posts Learning Assignments	05/27
Module 5	Network Communications, chapter 8	Quiz 5 – Chapter 8 Discussion Posts Learning Assignments	06/03
Module 6	Installing Software Packages, chapter 9	Quiz 6 – Chapter 9 Learning Assignments Discussion Posts	06/10
Module 7	Apache Web Server, chapter 10	Quiz 7 – Chapter 10 Discussion Posts Learning Assignments	06/17
Module 8	Domain Name System, configuring a mail server. Chapters 11-12	Mid-Term Exam Chapters 1 – 10 Quiz 8 – Chapters 11 and 12 Discussion Posts	06/24

		Learning Assignments	
Module 9	Working with the Network File System, Planning for the Linux Installation. Chapters 13 - 14	Quiz 9 – Chapters 13 and 14 Discussion Posts Learning Assignments Professional Development	07/15
Module 10	Linux File System Management and Administration. Chapter 15	Quiz 10 – Chapter 15 Discussion Posts Learning Assignments	07/22
Module 11	Managing Resources in Linux. Chapter 16	Quiz 11 – Chapter 16 Discussion Posts Learning Assignments	07/29
Module 12	Networking in a Linux Environment. Chapter 17	Quiz 12 – Chapter 17 Discussion Posts Learning Assignments	08/05
Module 13	Using Samba for Interoperating Linux and Windows, Securing Linux. Chapters 18 - 19	Quiz 13 – Chapters 18 and 19 Learning Assignments Discussion Posts	08/12
Module 14	Advanced Linux Administration. Chapter 20	Quiz 14 – Chapter 20 Learning Assignments Discussion Posts	08/19
Module 15	Course Portfolio Due Final Exam	Final Exam – Chapters 11 - 20 Available through Wednesday	08/22

Schedule is subject to change at instructor discretion.