

# Oklahoma State University Institute of Technology

## Online Common Syllabus

Summer 2017

### ITD 3093 Linux Workstation & Server OS

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

**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](mailto: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 - 9:30 am to 11:00 am, 3:00pm to 4:00pm

Tuesday/Thursday – 8:00am to 9:15 am, 1:00pm to 4:00pm

Or by appointment

**School Name:** Information Technologies

**School's Main Phone:** 918-293-5440

### Required Text, References, and Materials

**Texts:** *Linux Operations and Administration*, 1<sup>st</sup> 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%

<b>OSUIT Grading Scale</b>
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.

- You will be required to make at least 1 post by Wednesday

- If your first post is on Thursday I will deduct 10 points, Friday 20 points, etc.
- These must be solid posts on the subject of the discussion.
- If your first post is BEFORE Wednesday, I will add 5 points for each day
- If your first post is Monday and you make 4 solid posts that week, you will receive a 90 for 4 posts and 10 points for the Monday post.
- The sooner you post, the fewer posts will be required to receive a 100.
  - 5 or more solid responses (no "I agree" etc.) is 100%
  - 4 solid responses is a 90%
  - 3 solid responses is an 85%
  - 2 solid responses is a 70%
  - 1 solid responses is a 50%

### **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. 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.

### **Attendance Policy for Online Courses:**

A primary component of OSUIT's Mission is: *to prepare and sustain a diverse student body as competitive members of a world-class workforce.* Regular and consistent attendance not only aids in academic success, dependable attendance is a requirement in today's real-world employment; therefore, regular and consistent attendance is a requirement in all OSUIT courses.

### **Definition:**

Absent: Failing to *actively participate* in online coursework during a standard week timeframe for a given course.

- A. Students must demonstrate attendance through *active participation* in the course at least once every seven days. Simply logging into the course does not constitute active participation.
- B. Active participation is defined as the completion of required activities such as:
  - 1. Completion of online quizzes or exams
  - 2. Submission of assignments
  - 3. Participation threaded discussions, or
  - 4. Involvement in discussion question as determined by the instructor and indicated in the course syllabus.
- C. Calculations for weekly to percentage ratios
  - 1. Missing 1 of 15 weeks = 6.67%
  - 2. Missing 2 of 15 weeks = 13.33%
  - 3. Missing 3 of 15 weeks = 20%
  - 4. Missing 1 of 7.5 weeks = 13.33%
  - 5. Missing 1.5 of 7.5 weeks = 20%

## **Procedures:**

### **Early Intervention:**

- A. Any student who misses 10% of an individual course (or earlier at faculty discretion) during a regular fifteen-week semester, or the equivalent portion of time in a shorter session, will have their name submitted by that course instructor to the OSUIT Early Alert System for retention intervention.
- B. At the point the Early Alert is issued, the student *must* meet with their assigned faculty advisor or designated faculty/staff member within seven (7) academic calendar days for counseling on how to improve their attendance and academic success.

### **Excessive Absences:**

- A. The University reserves the right to administratively withdraw any student from an individual course who misses 20% of that course, whether excused or unexcused, and, in the opinion of the instructor, the student does not have a reasonable opportunity to be successful in the course.
- B. Students should be aware any of the following may impact their financial aid:
  - 1. being administratively withdrawn from a course
  - 2. dropping a course
  - 3. their last date of attendance in a course

Please see OSUIT Policy 2-021 for full details and procedures.

## **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.

## **University & Course Expectations**

It is the responsibility of each OSUIT student to read, abide by and maintain a copy of the syllabus for this course. Syllabi are available on the OSUIT website.

Students understand that excerpts or portions of their work may be utilized for institutional assessment purposes. The purpose of institutional assessment is for verification of student learning and program improvement. Every effort will be made to keep this information confidential.

## **Americans with Disabilities Act (ADA)**

According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Academic Accommodations/LASSO Center. Please advise the instructor of your disability as soon as possible, and contact The LASSO Center, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified. The LASSO Center is located on the 3rd floor of the Noble Center. You may call [918.293.4855](tel:918.293.4855) for more information or fax documentation to [918.293.4853](tel:918.293.4853).

## **Academic Dishonesty**

Academic dishonesty or misconduct is neither condoned nor tolerated at OSUIT. Any student found guilty of academic dishonesty or misconduct shall be subject to disciplinary action. Academic dishonesty and/or misconduct includes, but is not limited to, the following actions:

1. Plagiarism: the representation of previously written, published, or creative work as one's own
2. Unauthorized collaboration on projects
3. Cheating on examinations
4. Unauthorized advance access to exams
5. Fraudulent alteration of academic materials
6. Knowing cooperation with another person in an academically dishonest undertaking.

Students are required to actively protect their work against misuse by others. For details, refer to The OSUIT Student Handbook (Student Rights and Responsibilities Governing Student Behavior) available online at [http://www.osuit.edu/academics/forms/student\\_rights\\_responsibility.pdf](http://www.osuit.edu/academics/forms/student_rights_responsibility.pdf).

<b>Course Schedule</b>			
<b>Schedule</b>	<b>Topics</b>	<b>Assignment</b>	<b>Due Date</b>
Module 1	Introduction to Linux – Chapters 1 - 2	Quiz 1 – Chapters 1 and 2 Discussion Posts Learning Assignments	05/07
Module 2	Managing Files and Directories – Chapter 3	Quiz 2 – Chapter 3 Discussion Posts Learning Assignments	05/14
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	05/21
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	05/28
Module 5	Network Communications, chapter 8	Quiz 5 – Chapter 8 Discussion Posts Learning Assignments	06/04
Module 6	Installing Software Packages, chapter 9	Quiz 6 – Chapter 9 Learning Assignments Discussion Posts	06/11
Module 7	Apache Web Server, chapter 10	Quiz 7 – Chapter 10 Discussion Posts Learning Assignments	06/18
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 Learning Assignments	06/25
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	07/16
Module 10	Linux File System Management and Administration. Chapter 15	Quiz 10 – Chapter 15 Discussion Posts Learning Assignments	07/23
Module 11	Managing Resources in Linux. Chapter 16	Quiz 11 – Chapter 16 Discussion Posts Learning Assignments	07/30
Module 12	Networking in a Linux Environment. Chapter 17	Quiz 12 – Chapter 17 Discussion Posts Learning Assignments	08/06

Module 13	Using Samba for Interoperating Linux and Windows, Securing Linux. Chapters 18 - 19	Quiz 13 – Chapters 18 and 19 Learning Assignments Discussion Posts	08/13
Module 14	Advanced Linux Administration. Chapter 20	Quiz 14 – Chapter 20 Learning Assignments	08/20
Module 15	Course Portfolio Due Final Exam	Final Exam – Chapters 11 - 20 Available through Wednesday	08/23

Schedule is subject to change at instructor discretion.