

Oklahoma State University Institute of Technology
Face to Face Common Syllabus
Summer 2018

ITD 2223 Operating Systems

Focuses on operating systems and system security. Topics include: operating system installation, configuration and implementation, and operating system security architectures. Theory/Lab.

Course Purpose:

This course will introduce students to three operating systems, Windows, Windows Server and Linux

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 – Face to Face

Prerequisites: None.

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. Make sure to include your class name in the subject line. Please allow 24-48 hours to return your correspondence during the normal work week.

Instructor's Office Hours:

Monday/Wednesday – 8am to 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: *Windows 10 Inside Out, 2nd Edition*, Ed Bott, Carl Siechert & Craig Stinson (2015) Microsoft Press, ISBN: 978-1-5093-0485-1

Getting Started with Ubuntu 16.04, The Ubuntu Manual Team
<http://ubuntu-manual.org> Downloadable from Online Classroom course website.

References: Websites with instructions to install and configure Windows Server 2012

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

Uniform/Tools: None

Estimated Cost for Materials: \$ 60.00
Estimated Cost for Uniform/Tools: \$ 00.00

Upon completion of the course, students should:

Course Objectives	Assessment of Objectives	
demonstrate knowledge of standard backup or disaster recovery processes	Backup Configuration Labs	A.1
communicate in a professional manner in both IT technical and non-technical written forms in electronic and/or print formats	Research Papers	F.1
install and/or configure the workstation or server operating system to meet identified needs	Learning/Assessment Assignments*	I.1

Aspects of the course objective assessments may be used in the university's assessment of student learning. If applicable, an asterisk (*) above indicates this course is used in the university assessment program.

Course Activities

In this course students will:

- Examine the progression of Windows operating systems.
- Experience operating systems in a virtual environment.
- Install Windows operating system.
- Install several services on Windows server
- Manage user accounts.
- Explore group policy.
- Monitor system performance.

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

Discussion Responses	10%
*Learning/Assessment Assignments	30%
Research Papers.....	10%
Digital Course Portfolio.....	5%
Install Labs	5%

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

Professional Development	5%
Quizzes (min. 4)	20%
Mid Term Exam	7.5%
Final Exam	<u>7.5%</u>
TOTAL.....	100%

*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 one response 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:

- 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.

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/Exams 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 Windows 10 <ul style="list-style-type: none"> ○ Getting to know Windows 10. ○ Learn how to get around Windows 10 ○ Install Windows 10 using vSphere (Lab Assignment). 	Learning Assignments – Download and install the vSphere Console Software. Screen shots of Learning assignments Discussion Posts Lab One – Windows 10	05/06

		Install.	
Module 2	Using Windows 10 <ul style="list-style-type: none"> ○ Navigating Windows 10 ○ Managing and Arranging Windows ○ Customizing the appearance ○ Syncing your settings 	Learning Assignments – Chapters Three and Four screen shots Discussion Posts	05/13
Module 3	Networking and Managing User Accounts <ul style="list-style-type: none"> ○ Monitor your network ○ Share files ○ Home groups 	Learning Assignments – Chapters Five and Six screen shots. Discussion Posts Quiz One – Chapters 1-6	05/20
Module 4	Securing Windows 10 Devices and using desktop programs <ul style="list-style-type: none"> ○ Understanding Security Threats ○ Securing your system ○ Installing/running Apps 	Learning Assignments – Chapters Seven and Eight screen shots. Discussion Posts	05/27
Module 5	Productivity, communication and Music <ul style="list-style-type: none"> ○ Mail, Calendar and People ○ Find and Play Music and Other Audio Files ○ View and Manage Photos ○ Watch and Organize Videos 	Learning Assignments – Chapters Ten and Eleven screen shots. Discussion Posts Research Paper One due	06/03
Module 6	Managing files on PCs and in the cloud <ul style="list-style-type: none"> ○ File Explorer ○ Managing file properties ○ Using Windows Search 	Learning Assignments – Chapter Twelve screen shots. Discussion Posts Quiz Two – Chapters 7-12	06/10
Module 7	System Maintenance and Troubleshooting <ul style="list-style-type: none"> ○ Troubleshooting Problems in Windows 10 ○ Managing Hardware ○ Managing Disks and Drives 	Learning Assignments – Chapters Thirteen and Fourteen screen shots. Discussion Posts Mid-Term Exam	06/17
Module 8	Installing Server 2012 R2 <ul style="list-style-type: none"> ○ Understanding Server Software ○ Using different services ○ Using server roles 	Learning Assignments – Install Windows Server 2012 screen shots. Discussion Posts	06/24
Module 9	Configuring Server 2012 R2 <ul style="list-style-type: none"> ○ Understanding why Active Directory is used ○ Configuring Active Directory 	Learning Assignments – Install Active Directory screen shots. Discussion Posts Research Paper Two due	07/15
Module 10	Installing Ubuntu Linux <ul style="list-style-type: none"> ○ The History of UNIX and GNU–Linux ○ The Installation Process ○ Gathering Information About the System 	Learning Assignments – Installation and configuration Discussion Posts Quiz Three – Chapters 13, 14, Server Installing Linux	07/22
Module 11	Getting Started with Ubuntu Linux Desktop	Learning Assignments – Screenshots	07/29

	<ul style="list-style-type: none"> ○ A Tour of the Ubuntu Desktop ○ The File Manager ○ Using software 	Discussion Posts	
Module 12	Working With Ubuntu <ul style="list-style-type: none"> ○ Office Suites ○ Network Manager ○ Desktop Sharing 	Learning Assignments – screen shots. Discussion Posts .	08/05
Module 13	Introduction to Hardware and Software Management <ul style="list-style-type: none"> ○ Displays ○ Sound ○ Keyboard and Mouse ○ Package Management 	Learning Assignments – screen shots. Discussion Posts Quiz Four Linux	08/12
Module 14	Advanced Topics, Troubleshooting, and Learning More	Learning Assignments – screen shots. Research Paper Three is due	08/19
Module15	Course Portfolio Due Final Exam		08/22

Schedule is subject to change at instructor discretion.