

Oklahoma State University Institute of Technology
Online Common Syllabus
Summer 2016

ITD 3543 – Enterprise Networking

Implementation, analyzation, and administration of a virtual infrastructure. Topics include server implementation and configuration; creating, configuring, and managing virtual machines, virtual networks, and storage devices; resource allocation, balancing resources utilization, and performance management tool technologies.

Type of course: Theory/Lab.

Credit Hours: 3; Total hours of theory per semester: 30;

Total hours of lab for the semester: 45; Total hours of clinical per semester: 0

Class length - Full Semester

Class format - Fully Online

Required synchronous meetings: None

Prerequisites: ITD 1223 & ITD 2223

Instructor Name: Dr. Fil Guinn

Instructor Phone: (918) 293-5428

Office: EET/IT, Room 15C

Instructor email: fil.guinn@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 and Wednesday 6:30 – 8:30 PM (Online, Phone and Email), Tuesday and Thursday 9:30 – 11:30 AM (In office), Central Time

School Name: Information Technologies

School's Main Phone: 918-293-5440

Required Text, References, and Materials

Texts: Mastering VMware vSphere 6.0 by Marshall, Nick, Orchard, Grant & Atwell, Josh, John Wiley & Sons, 2015. ISBN: 9781118925157. Available at the bookstore & online

References: Assorted videos

Materials: Access to a computer with broadband Internet Access (2Mbps upload preferred)

Uniform/Tools: None

Estimated Cost for Materials:

\$ 60.00

Estimated Cost for Uniform/Tools:

\$ 0.00

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.

Upon completion of the course, students should:

Course Objectives	Assessment of Objectives	
Design or implement virtualization for expansion of existing hardware or software solutions	Chapter Activities (OS labs) Bottom Line Questions	C.1
Design, implement, manage, or maintain scalable networks using enterprise level, physical and virtual, network classifications, topologies, or communication models	Chapter Activities (OS labs) Bottom Line Questions	C.2
Demonstrate knowledge of network trends and issues	Chapter Activities (virtual labs) Bottom Line Questions	G.1
Identify, assess the potential for, and justify alternative or evolving IT system changes to improve process performance	Chapter Activities (admin labs) Bottom Line Questions	K.2
Troubleshoot network hardware or software errors	Chapter Activities (networking labs). Bottom Line Questions	M.2

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

Course Activities

In this course students will:

- Participate in discussions and activities.
- View videos that depict the various concepts.
- Design and implement a virtual environment.
- Configure virtual machines.
- Compile a portfolio of work produced.
- Take examinations.
- Complete course project.
- Reply to chapter questions and/or definitions

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

Discussions	10%
Faculty Contact.....	5%
Chapter Activities (Labs)	45%
Chapter Questions.....	20%
*Course Project	15%
Portfolio	5%
Total	100%

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

*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

You will select a partner to work with throughout the semester. 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.

- 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 80%
 - 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:
 - a. Completion of online quizzes or exams
 - b. Submission of assignments
 - c. Participation threaded discussions, or
 - d. 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 online classroom activities. All quizzes, labs, and written assignments are to be completed independently and any instance of collaboration will be considered academic dishonesty. Collaboration with classmates while studying concepts and network configurations is permitted and encouraged.

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.

If the faculty member grades an assignment you have submitted before the due date, you do not have the ability to modify the assignment to increase your grade. Any additional submissions will not be opened, so make sure you are ready to submit your assignments and accept the grade you are 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 for more information or fax documentation to 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.

Course Schedule

Schedule	Topic	Assignment	Due Date
Week 1	Module One Chapter One – Introducing VMware vSphere 6.0	Learning Assignments Chapter Activities Assessments Bottom Line Questions	5/7/2017
Week 2	Module Two Chapter Two – Planning and Installing VMware ESXi	Learning Assignments Chapter Activities Assessments Bottom Line Questions	5/14/2017
Week 3	Module Three Chapter Three – Installing and Configuring vCenter Server	Learning Assignments Chapter Activities Assessments Bottom Line Questions	5/21/2017
Week 4	Module Four Chapter Four – vSphere Update Manager and the vCenter Support Tools	Learning Assignments Chapter Activities Assessments Bottom Line Questions	5/28/2017
Week 5	Module Five Chapter Five – Creating and Configuring Virtual Networks	Learning Assignments Chapter Activities Assessments Bottom Line Questions	6/4/2017
Week 6	Module Six Chapter Six – Creating and Configuring Storage Devices	Learning Assignments Chapter Activities Assessments Bottom Line Questions	6/11/2017
Week 7	Module Seven Chapter Seven – Ensuring High Availability and Business Continuity	Learning Assignments Chapter Activities Assessments Bottom Line Questions	6/18/2017
Week 8	Module Eight Chapter Eight – Securing VMware vSphere	Learning Assignments Chapter Activities Assessments Bottom Line Questions	6/25/2017
Student Summer Break			
Week 9	Module Nine Chapter Nine – Creating and Managing Virtual Machines	Learning Assignments Chapter Activities Assessments Bottom Line Questions	7/16/2017
Week 10	Module Ten Chapter Ten – Using Templates and vApps	Learning Assignments Chapter Activities Assessments Bottom Line Questions	7/23/2017

Week 11	Module Eleven Chapter Eleven – Managing Resource Allocation	Learning Assignments Chapter Activities Assessments Bottom Line Questions	7/30/2017
Week 12	Module Twelve Chapter Twelve – Balancing Resource Utilization	Learning Assignments Chapter Activities Assessments Bottom Line Questions	8/6/2017
Week 13	Module Thirteen Chapter Thirteen – Monitoring VMware vSphere Performance	Learning Assignments Chapter Activities Assessments Bottom Line Questions	8/13/2017
Week 14	Module Fourteen Chapter Fourteen – Automating VMware vSphere	Learning Assignments Chapter Activities Assessments Bottom Line Questions	8/20/2017
Week 15	Module Fifteen Final Project & Portfolio	Course Project Portfolio (with copy of Project)	8/23/2017 8/24/2017

Schedule is subject to change at instructor discretion.