Computer Virtualization   (ITNW 1313 9T1)

INSTRUCTOR CONTACT INFORMATION

Instructor:	Steven Joiner
Email:	scjoiner@lit.edu
Office Phone:	409 247 4995
Office Location:	T4 – 105 (Back Office)
Office Hours:	Tuesday/Thursday: 10:30am – 3:00pm

CREDIT

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

MODE OF INSTRUCTION

Face to Face

PREREQUISITE/CO-REQUISITE:

None

COURSE DESCRIPTION

Implement and support virtualization in a networked computing environment. This course explores installation, configuration, and management of computer virtualization workstation and servers.

COURSE OBJECTIVES

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

- Install and configure virtual machine managers
- Create and network virtual machines and set priorities for accessing resources
- Move and clone virtual machines
- Ensure high availability for applications within virtual machines

REQUIRED TEXTBOOK AND MATERIALS

- *Hands-On Virtual Computing , 2nd Edition*, Simpson and Novak, Cengage, 2017
    - ISBN: 9781337101936 (Print)
    - ISBN:9781337781251 (Ebook)

ATTENDANCE POLICY

Please refer to the Beaumont Independent School District attendance policy in the student handbook for details.

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	READINGS (Due on this Date)	ASSIGNMENTS (Due on this Date)
Week 1	Intro/Syllabus	None	None
Week 2	Introduction to Virtual Computing Environments	Module 1 See Blackboard Schedule	Module 1 Quiz
Week 3	Working with Oracle VM VirtualBox 5	Module 2 See Blackboard Schedule	Lab 2-1 Lab 2-2
Week 4	Working with Oracle VM VirtualBox 5	Module 2 See Blackboard Schedule	Hands-on assignment Module 2 Quiz
Week 5	Working with VMware Workstation	Module 3 See Blackboard Schedule	Lab 3-1 Lab 3-2
Week 6	Working with VMware Workstation	Module 3 See Blackboard Schedule	Hands-on assignment Module 3 Quiz
Week 7	Data Center Virtualization	Module 4 See Blackboard Schedule	Lab 4-1 Module 4 Quiz Test 1
Week 8	Working with Microsoft Hyper-V	Module 5 See Blackboard Schedule	Lab 5-1 Module 5 Quiz
Week 9	Module 1-5 Review	Module 1-5 See Blackboard Schedule	Test 1
Week 10	Working with Microsoft Hyper-V Virtual Machine Manager	Module 6 See Blackboard Schedule	Lab 6-1 Module 6 Quiz
Week 11	Working with VMware Vsphere	Module 7 See Blackboard Schedule	Lab 7-1 Lab 7-2 Module 7 Quiz
Week 12	Working with VMware Vcenter	Module 8 See Blackboard Schedule	Lab 8-1 Lab 8-2 Module 8 Quiz
Week 13	Implementing Virtual Desktop Infrastructure Environments	Module 9 See Blackboard Schedule	Lab 9-1 Module 9 Quiz
Week 14	Using Virtual Computing in Cloud Computing	Module 10 See Blackboard Schedule	Module 10 Quiz
Week 15	Module 6-10 Review	Modules 6-10 See Blackboard Schedule	Test 2
Week 16	Final Exam	None	Final Exam TBA

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

Labs	25%
Quizzes	25%
Tests	25%
Final	25%

GRADE SCALE

- 90-100   A
- 80-89   B
- 75-79   C
- 70-74   D
- 0-69   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 WiFi 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).

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
Course Policies
1. No food, drinks, use of tobacco products, or vaping products in class.
2. Electronic devices not being used for the class, such as phones and headphones, must be turned off while in class. Any device usage during class may result in a deduction of points on an assignment or test.
3. Certification: If a student passes the certification test that is associated with this class, you will receive an "A" on the final exam and credit for 25% of your labs.
4. A grade of 'C' or better must be earned in this course for credit toward degree requirement.
5. All assignment due dates are indicated in the Blackboard course for this class. Any work submitted after the assigned due date will receive a 10 point deduction.
6. Tests are assigned a due date and must be completed by that date. Tests will not be reactivated after the due date.
7. All assignments must be submitted via Blackboard unless specified by your instructor. Assignments submitted through any other method will receive a "0".
8. Grades for assignments may be accessed through My Grades in Blackboard. Each assignment shows your grade and any grading comments made on your assignment.
9. It is the student's responsibility to verify transferred exam grades and ask for corrections if needed.
10. All work is due before the final exam date. Nothing will be graded after the final exam.