Computer Virtualization

(ITNW 1313 6A1)

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

MODE OF INSTRUCTION
Face to face, hybrid

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; and ensure high availability for applications within virtual machines.

INSTRUCTOR CONTACT INFORMATION

Instructor:	Tim Storbeck
Email:	tjstorbeck@lit.edu
Office Phone:	409-247-5236
Office Location:	T4 rm 109D
Office Hours:	Posted outside office and on Starfish or by appointment.

REQUIRED TEXTBOOK AND MATERIALS
Hands-on Virtual Computing, 2nd Edition; 2018; Simpson and Novak
ISBN is 9781337101936 for print book
ISBN is 9781337669740 foe E-book
www.cengage.com

ATTENDANCE POLICY
Mandatory and makes up 10% of your grade

Approved: Initials/date

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 8/26-9/1	Course Introduction	Syllabus	Blackboard 9/1
Week 2 9/1-9/8	Textbook and MindTap access	Blackboard	Cengage .com 9/6
Week 3 9/8-9/15	Introduction to Virtual Computing Environment	Module 1 PP 1-48	Mod 1
Week 4 9/15-9/22	Working w/ Oracle Virtual Box5	Module 2 PP 49-82	Quiz Mod 1 Labs Mod 2 9/27
Week 5 9/22-9/29	Working w/ VM Ware Workstation 12	Module 3 PP 83-144	Quiz Mod 2 Labs Mod 3 10/4
Week 6 9/29-10/6	Working w/ Data center Virtualization	Module 4 PP 145-198	Quiz Mod 3 Labs Mod 2 10/11
Week 7 10/6-10/13	Working w/ Microsoft Hyper-V	Module 5 PP 199-236	Quiz Mod 4 Labs Mod 3 10/18
Week 8 10/13-10/20	Working w/ Microsoft Hyper-V Virtual Manager	Module 6 PP 237-282	Quiz Mod 5 Labs Mod 4 10/25
Week 9 10/20-10/27	Working w/ VMware V Sphere	Module 7 PP 283-320	Quiz Mod 5 Labs Mod 6 11/1
Week 10 10/27-11/3	Working w/ VMware VCenter	Module 8 PP 321-382	Quiz Mod 6 Labs Mod 7 11/8
Week 11 11/3-11/10	Working w/ VMware VCenter	Module 8 PP 321-382	Labs Mod 8
Week 12 11/10-11/17	Implementing Virtual Desktop	Module 9 PP 383-446	Labs Mod 8 11/15
Week 13 11/17-11/24	Using Virtual Computing in Cloud Computing	Module 10 PP 447-502	Quiz Mod 8 Labs Mod 9 11/22
Week 14 11/24-12/1	Make up work and retakes	All Modules	Quiz Mod 9 Labs Mod 9 11/29
Week 15 12/1-12/8	Review for Final	All Modules	Quiz Mod 10 12/6
Week 16 12/8-12/12	Final	Final	12/9

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- End of Chapter test or quiz   40%
- Attendance   10%
- Labs   30%
- Final   20%

GRADE SCALE

- **90-100   A**
- **80-89   B**
- **70-79   C**
- **60-69   D**
- **0-59   F**

LIT does not use +/- grading scales

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.

ARTIFICIAL INTELLIGENCE STATEMENT

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses

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.