

CONFIGURING ADVANCED WINDOWS SERVER
OPERATING SYSTEM
ITMT 1305



**LAMAR INSTITUTE
OF TECHNOLOGY**

CREDIT

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

MODE OF INSTRUCTION

Face to Face

PREREQUISITE/CO-REQUISITE:

None

COURSE DESCRIPTION

Advanced configuration tasks require to deploy, manage, and maintain a Windows Server operating system infrastructure. Additional topics include fault tolerance, certificate services, and identity federation.

COURSE OBJECTIVES

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

- Configure and manage high availability.
- Optimize file and storage solutions.
- Implement business continuity and disaster recovery.
- Configure network services such as DHCP, DNS, and IPAM.
- Design and implement an Active Directory Infrastructure.
- Install and configure identity and access solutions.

INSTRUCTOR CONTACT INFORMATION

Instructor: Jennifer Graham

Email: jgraham2@lit.edu

Office Phone: 409-241-9837

Office Location: TA4-105B

Office Hours: MW: 11:00-1:00, TR: 10:30-1:00, F: 10:00-11:30

REQUIRED TEXTBOOK AND MATERIALS

1. Cengage MindTap access to **Hands-On Microsoft Windows Server 2022, 4th Edition, Eckert, Jason W.; Cengage, 2026**
 - a. **How to buy your Course Materials**

Step 1: Sign into **Blackboard** and click on **this course**

Step 2: Click on the Cengage link: **Getting Started** in the **Getting Started** Module. Step 3: Create or sign into your Cengage account to access or purchase the materials for this course.

NOTE: If you are taking additional courses that use Cengage materials, you can save by purchasing a Cengage Unlimited plan,

Approved: **Initials/date**

which gives you access to all Cengage eTextbooks and online homework platforms for one price. Visit cengage.com/unlimited to learn more.

- b. Beware of sites that are selling discounted codes. These sources are likely unauthorized sellers who have acquired access codes illegally, and transactions with such sources may pose a risk to your personal information.
- c. Need help? Visit startstrong.cengage.com for step-by-step registration instructions and videos.

ATTENDANCE POLICY

Three absences are allowed. If a student is tardy to class or departs early three (3) times, it will be equal to one (1) absence. Each absence beyond three absences will result in a 2-point deduction from your final grade.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process by the specified drop date as listed on the [Academic Calendar](#). If you stop coming to class and fail to drop the course, you will earn an “F” in the course.

Important Drop Dates

Last Day to Drop with Refund	09/10/2025
Last Day to Pay Tuition to Avoid Drop	09/22/2025
Last Day to Drop without Academic Penalty	09/26/2025
Last Day to Drop with Academic Penalty	10/31/2025

STUDENT EXPECTED TIME REQUIREMENT

For every hour in class (or unit of credit), students should expect to spend at least two to three hours per week studying and completing assignments. For a 3-credit-hour class, students should prepare to allocate approximately six to nine hours per week outside of class in a 16- week session OR approximately twelve to eighteen hours in an 8-week session. Online/Hybrid students should expect to spend at least as much time in this course as in the traditional, face-to-face class.

COURSE CALENDAR (Subject to change)

DATE	TOPIC	READINGS	ASSIGNMENTS (Due on this Date)
Week 1 8/25-9/1	Introduction/Syllabus	None	Syllabus, Ack 9/1/2025

Week 2 9/1-9/8	Getting Started with Windows Server 2022	Chapter 1	Quiz Ch 1 Labs 1.1, 1.2, 1.3 9/8/2025
Week 3 9/8-9/15	Configuring Windows Server 2022	Chapter 2	Quiz 2 Lab 2.1, 1, 2.2, 2.3 9/15/2025
Week 4 9/15/9/22	Implementing Hyper- V and Rapid Server Deployment	Chapter 3	Quiz 3 Lab 3.1, 3.2, 3.3 9/22/2025
Week 5 9/22-9/29	Introduction to Active Directory and Account Management	Chapter 4	Quiz 4 Labs 4.1, 4.2, 4.3, 4.4, 4.5 9/29/2025
Week 6 9/29/10-6	Configuring Resource Access	Chapter 5	Quiz 5 Labs 5.1, 5.2 10/6/2025
Week 7 10/3-10/13	Configuring Printing	Chapter 6	Quiz 6 10/13/2025
Week 8 10/13-10/20	Configuring and Managing Data Storage	Chapter 7	Quiz 7 Labs 7.1, 7.2, 7.3 10/20/2025
Week 9 10/20-10/27	Configuring and Managing Network Services	Chapter 8	Quiz 8 Labs 8.1, 8.2, 8.3 10/27/2025
Week 10 10/27-11/3	Configuring and Managing Remote Access Services	Chapter 9	Quiz 9 Labs 9.1, 9.2, 9.3, 9.4, 9.5 11/3/2025
Week 11 11/3-11/10	Configuring Web Services and Cloud Technologies	Chapter 10	Quiz 10 11/10/2025
Week 12 11/10-11/17	Managing and Securing Windows Networks	Chapter 11	Quiz 11 Labs 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7, 11.8, 11.9, 11.10 11/17/2025
Week 13 11/17-11/24	Monitoring and Troubleshooting Windows Server 2019	Chapter 12	Quiz 12 Labs 12.1, 12.2, 12.3, 12.4, 12.5 11/24/2025

Week 14 11/24-12/1	Make up work	All modules	112/1/2025
Week 15 12/1-12/4	Review	Review all modules	12/4/2025
Week 16 12/4-12/9	Final Exam	Final Exam	Final Exam 12/9/2025

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- Labs 30%
- Quiz 30%
- Final Exam 30%
- Discussion 10%

GRADING SCALE

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

LIT does not use +/- grading scales

A grade of 'C' or better must be earned in this course for credit toward degree requirement.

ACADEMIC DISHONESTY

Students found to be committing academic dishonesty (cheating, plagiarism, or collusion) may receive disciplinary action. Students need to familiarize themselves with the institution's Academic Dishonesty Policy available in the Student Catalog & Handbook at <http://catalog.lit.edu/content.php?catoid=3&navoid=80#academic-dishonesty>.

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 Wi-Fi 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 \(lit.edu\)](https://www.lit.edu/special-populations).

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.

ADDITIONAL COURSE POLICIES/INFORMATION

Certification Requirement

Cyber Security majors are required to earn certification in one of the following areas prior to graduation. [Students are responsible for scheduling and paying for the certification through the LIT Testing Center.](#)

- A+ Certification
- Network+ Certification
- Security+ Certification

- Linux+ Certification
- Cisco Certified Network Associate (CCNA)

Course Policies

1. Email is the preferred method of communication (jgraham2@lit.edu). I cannot respond to Blackboard Messages, I can see them, but I have no way to respond. I will respond within 48 hours except for weekends and holidays.
2. No food, drinks, use of tobacco products, or vaping products in class.
3. 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.
4. Do not bring children to class.
5. A grade of 'C' or better must be earned in this course for credit toward degree requirement.
6. All assignment due dates are indicated in the Blackboard course for this class and the course calendar above. Any work submitted after the assigned due date will receive a 10-point deduction the first 2 days and 15 points after 2 days. There is a one-week limit for late work, after one week it will be a 0.
7. Tests are assigned a due date and must be completed by that date to receive full credit. Tests will be open for 5 days total, 3 days for full credit and 2 days for 15-points off.
8. All assignments must be submitted via Blackboard unless specified by your instructor. All assignments require 2 files when submitting work, a packet tracer file and a word document or PDF. Assignments submitted through any other method or missing a file will not receive credit.
9. Grades for assignments may be accessed in the Gradebook in Blackboard. Each assignment shows your grade and any grading comments made on your assignment.

All work is due before the final exam date. Nothing will be graded after the final exam.

EAGLE LEARNING ESSENTIALS

Eagle Learning Essentials (ELE) <https://lit.edu/student-success/eagle-learning-essentials> is an affordable textbook rental program through the Barnes and Noble Bookstore. Through this program, students can receive required textbooks, lab manuals, access codes and electronic books conveniently before the first day of class.

The ELE bundle will provide the needed learning materials at \$14 per credit hour (added to your student account), saving students up to 35-50% on the cost of course materials. The cost can be paid by financial aid or by the student. If a student enrolls in a payment plan, this charge will be included in the payment plan calculations. Supplies are not included in this program and will need to be purchased separately.

LIT students are automatically enrolled in the program at the time of registration and will begin receiving emails about selecting their preferred delivery method.