Syllabus for ITS-3630—Windows Server Configuration

COURSE DESCRIPTION

Windows Server Configuration provides the core knowledge and skills necessary to design, implement, configure, and manage a Windows network that incorporates Windows Server infrastructure. This course offers in-depth coverage of installation, networking configuration, Active Directory domain services, server virtualization, virtual machines, Windows firewall configuration, and security policies.

COURSE TOPICS

- Installation and configuration of servers
- Networking basics
- Storage
- Configuration of Hyper-V
- Installation and administration of Active Directory
- Implementation of DNS
- Deployment and configuration of core network services
- Configuration of server roles and features
- Creation and management of group policies
- Configuration of network settings
- Implementation of DHCP
- Server virtualization
- Virtual machines
- Security policy

COURSE OBJECTIVES

After completing this course, you should be able to:

CO 1 Install Windows and configure Windows Server.

CO 2 Install and configure networking components.

CO 3 Implement storage and file access and permissions.

CO 4 Manage virtualization with Hyper-V.

CO 5 Create Active Directory users, groups, and organizational units.

CO 6 Create and manage group policy objects.

CO 7 Deploy and configure DNS and DHCP service.

CO 8 Perform server management tasks.

CO 9 Install and configure containers and availability.

COURSE MATERIALS

The following TestOut course will serve as your virtual textbook for the course:

TestOut Hybrid Server Pro: Core

TestOut provides interactive online courses that help you prepare for various certification exams. In completing your coursework, you will be using parts of the TestOut course as an interactive textbook with chapters, sections, practice questions, simulated labs, and more, to aid in learning about topics in cybersecurity.

Access to these TestOut resources is provided in the TestOut Course Materials section of your course site. When you click the TestOut Hybrid Server Pro: Core link for the first time, you will need to enter your product code. Use the instructions found in the same section of the course to purchase access. Once you have made your payment and entered the product code, you will have access through the same TestOut Course link.

Other Resources

You will also find links to other resources, such as articles and websites, listed in individual modules. These resources are required reading for the modules.

COURSE STRUCTURE

Windows Server Configuration is a three-credit, online course consisting of **11** modules. Students will be required to compose and submit a paper at the end of the course. Modules include an overview, topics, learning objectives, study materials, and activities. Module titles are listed below.

- **Module 1: About Windows Server**
  Course objective covered in this module: CO 1

- **Module 2: Server Configuration, Management, and Networking**
  Course objectives covered in this module: CO 1, CO 2

- **Module 3: Configuring Storage**
  Course objective covered in this module: CO 3

- **Module 4: Hyper-V**
  Course objectives covered in this module: CO 4, CO 9

- **Module 5: Active Directory**
  Course objective covered in this module: CO 5

- **Module 6: Group Policy**
  Course objective covered in this module: CO 6

- **Module 7: Deploying and Configuring the DNS Service**
  Course objective covered in this module: CO 7

- **Module 8: File and Share Access**
  Course objective covered in this module: CO 8

- **Module 9: Managing IP Addresses**
  Course objective covered in this module: CO 8

- **Module 10: Deploying and Configuring the DHCP Service**
  Course objective covered in this module: CO 7

- **Module 11: Configuring Alternate Addressing and NIC Teaming**
  Course objectives covered in this module: CO 7, CO 8, CO 9

ASSESSMENT METHODS

For your formal work in the course, you are required to participate in online discussion forums, complete lab activities, complete quiz-like practice activities, and complete a final project. See below for details.

Consult the Course Calendar for due dates.

Promoting Originality—One or more of your course activities may utilize a tool designed to promote original work and evaluate your submissions for plagiarism. More information about this tool is available in this document.

Discussion Forums

You are required to complete **six** discussion forums. The discussion forums are on a variety of topics associated with the course modules.

Lab Activities

You are required to complete **12** lab activities. The lab activities are on a variety of topics associated with the course modules.

Written Assignment

You are required to complete **one** written assignment, a PowerPoint presentation, in Module 3.

Module Practice Activities

There are **10** module practice activities. The questions are similar to the practice questions at the end of each section of a chapter. Thus, it is highly recommended to try TestOut section-end practice questions before you attempt the module practice activity. These activities can be completed multiple times for additional practice, with the result of your most recent attempt appearing in your gradebook.

Final Project

In your final project you will plan the deployment of Windows Server 2022 for a small company with two locations. Your project will be a paper of between 2500 and 3300 words (approximately 10 to 12 pages, double-spaced) with diagrams and visuals, as appropriate, to demonstrate your solution.

See the Final Project area of your course for a full description and all details.

GRADING AND EVALUATION

Your grade in the course will be determined as follows:

- **Online discussions (6)—**15%

- **Lab activities (12)—**35%
- **Written assignment (1)—**5%
- **Practice activities (10)—**20%
- **Final project—**25%

All activities will receive a numerical grade of 0–100. You will receive a score of 0 for any work not submitted. Your final grade in the course will be a letter grade. Letter grade equivalents for numerical grades are as follows:

A	= 93–100	C+	= 78–79
A–	= 90–92	C	= 73–77
B+	= 88–89	C–	= 70–72
B	= 83–87	D	= 60–69
B–	= 80–82	F	= Below 60

To receive credit for the course, you must earn a letter grade of C or better (for an area of study course) or D or better (for a course not in your area of study), based on the weighted average of all assigned course work (e.g., exams, assignments, discussion postings).

STRATEGIES FOR SUCCESS

First Steps to Success

To succeed in this course, take the following first steps:

- Read carefully the entire Syllabus, making sure that all aspects of the course are clear to you and that you have all the materials required for the course.

- Take time to read the entire Online Student Handbook. The Handbook answers many questions about how to proceed through the course and how to get the most from your educational experience at Thomas Edison State University.

- Familiarize yourself with the learning management systems environment—how to navigate it and what the various course areas contain. If you know what to expect as you navigate the course, you can better pace yourself and complete the work on time.

- If you are not familiar with web-based learning, be sure to review the processes for posting responses online and submitting assignments before class begins.

Study Tips

Consider the following study tips for success:

- To stay on track throughout the course, begin each week by consulting the Course Calendar. The Course Calendar provides an overview of the course and indicates due dates for submitting assignments, posting discussions, and submitting the final project.

- Check Announcements regularly for new course information.

Using AI Ethically: A Guide for TESU Students

TESU's Academic Code of Conduct permits student AI use in support of their writing and research process--not as a replacement for original writing. Document AI use with an acknowledgment statement at the end of each assignment, noting the tools and prompts used. Cite any AI-generated content on the References page. Please review Using AI Ethically: A Guide for TESU Students for more detailed information.

COMMITMENT TO DIVERSITY, EQUITY, AND INCLUSION

Thomas Edison State University recognizes, values, and relies upon the diversity of our community. We strive to provide equitable, inclusive learning experiences that embrace our students' backgrounds, identities, experiences, abilities, and expertise.

ACCESSIBILITY AND ACCOMMODATIONS

Thomas Edison State University adheres to the Americans with Disabilities Act (ADA, 1990; ADAAA, 2008) and Section 504 of the Rehabilitation Act of 1973. The Office of Student Accessibility Services (OSAS) oversees requests for academic accommodations related to disabilities; a student who is pregnant, postpartum, or a student parenting a newborn who is not the birth parent [as covered under NJSA18A]; and students requesting academic accommodation for a short-term/temporary illness and/or injury. Information can be found on the Office of Student Accessibility Services webpage and questions can be sent to ADA@tesu.edu.

ACADEMIC POLICIES

To ensure success in all your academic endeavors and coursework at Thomas Edison State University, familiarize yourself with all administrative and academic policies including those related to academic integrity, course late submissions, course extensions, and grading policies.

For more, see:

- University-wide policies
- Undergraduate academic policies
- Undergraduate course policies
- Graduate academic policies
- Graduate course policies
- Nursing student policies
- Nursing graduate student policies
- International student policies
- Academic code of conduct