



Credit Hours: 3

Contact Hours: This is a 3-credit course, offered in accelerated format. This means that 16 weeks of material is covered in 8 weeks. The exact number of hours per week that you can expect to spend on each course will vary based upon the weekly coursework, as well as your study style and preferences. You should plan to spend 14-20 hours per week in each course reading material, interacting on the discussion boards, writing papers, completing projects, and doing research.

Faculty Information: Faculty contact information and office hours can be found on the faculty profile page.

COURSE DESCRIPTION AND OUTCOMES

Course Description:

This course addresses practical methods for analyzing business problems and designing large-scale software using object-oriented solutions. This course prepares students for the Microsoft Windows Server 2016 Enterprise Administrator certification exam.

Course Overview:

This course provides students with the skills and knowledge necessary to implement a core Windows Server 2016 infrastructure in an enterprise environment. The course covers implementation, management, maintenance, and the provisioning of services and infrastructure in a Windows Server 2016 environment. The course also covers the administrative tasks necessary to maintain a Windows Server 2016 infrastructure, such as the implementation of Server Images, Domain Name Systems (DNSs), Active Directory Domain Services (ADDS), Group Policies, and data security—as well as monitoring Windows Update Services. The course offers students hands-on instruction and practice through access to TestOut Server Pro: Install and Configure, and prepares them for Microsoft's 70-410 Certification and TestOut Server Pro: Install and Configure Certification.

Course Learning Outcomes:

1. Configure DNS for the enterprise environment.
2. Utilize Active Directory and its functions throughout the domain.
3. Use Groups, Authentication, and Group Policy to secure your enterprise.
4. Use Windows auditing to track potential security breaches.
5. Prepare server images for deploying servers.
6. Configure Hyper-V.
7. Deploy and configure core network services.
8. Protect data in the enterprise.

PARTICIPATION & ATTENDANCE

Prompt and consistent attendance in your online courses is essential for your success at CSU-Global Campus. Failure to verify your attendance within the first 7 days of this course may result in your withdrawal. If for some reason you would like to drop a course, please contact your advisor.

Online classes have deadlines, assignments, and participation requirements just like on-campus classes. Budget your time carefully and keep an open line of communication with your instructor. If you are having technical problems, problems with your assignments, or other problems that are impeding your progress, let your instructor know as soon as possible.

COURSE MATERIALS

Required:

LabSim Online Labs. (2018). *Server Pro 2016: Install and Storage* (Exam 70-740). Pleasant Grove, UT: TestOut. ISBN: 978-1-935080-65-7

NOTE: All non-textbook required readings and materials necessary to complete assignments, discussions, and/or supplemental or required exercises are provided within the course itself. Please read through each course module carefully.

COURSE SCHEDULE

Due Dates

The Academic Week at CSU-Global begins on Monday and ends the following Sunday.

- **Discussion Boards:** The original post must be completed by Thursday at 11:59 p.m. MT and peer responses posted by Sunday at 11:59 p.m. MT. Late posts may not be awarded points.
- **Opening Exercises:** Take the Opening Exercise before reading each week's content to see which areas you will need to focus on. You may take these exercises as many times as you need. The Opening Exercises will not affect your final grade.
- **Mastery Exercises:** Students may access and retake Mastery Exercises through the last day of class until they achieve the scores they desire.
- **Critical Thinking:** Assignments are due Sunday at 11:59 p.m. MT.

WEEKLY READING AND ASSIGNMENT DETAILS

Module 1

Readings

- Sections 1.0 & 2.0 in *Windows Server Pro 2016: Install and Storage* (Exam 70-740). (Read and view all content.)

Opening Exercise (0 points)

Discussion (25 points)

Mastery Exercise (10 points)

Critical Thinking (30 points)

Complete the following LabSim lab simulations:

- 1.2.3 Explore the Windows 2016 R2 User Interface
- 1.3.3 Explore the Windows 2016 User Interface
- 4.4.4 Configure NIC Teaming
- 5.1.8 Configure Volumes
- 5.1.9 Configure Fault Tolerance Volumes.

Each lab simulation will be graded automatically on a percent basis (100 possible points), which your instructor will convert to 10 points and enter in the Module 1 Critical Thinking Assignment grading rubric. *Note that you can re-work each graded lab simulation as many times as you like; therefore, if you repeat each simulation until you get a score of 100%, you can earn a perfect score on every Critical Thinking Assignment.*

When you finish each simulation assigned for this Critical Thinking Assignment, take a screenshot of the final screen to certify that you have completed all tasks. Then, paste the screen images into a Word document that includes your name, date, school name, section, course name, and instructor name and submit it from the **Assignments** page.

Portfolio Project Reminder

A Portfolio Project is due at the end of the course. Review the Portfolio Project description on the Week 8 Assignments page to preview this important final assignment. Also, review the final Portfolio Project grading rubric which can be accessed from the Course Information page. The various parts of this assignment can be completed during associated modules of the course, so be sure to begin work on the project early in the course and continue to work on it regularly.

Module 2

Readings

- Section 6.0 in *Windows Server Pro 2016: Install and Storage (Exam 70-740)*. (Read and view all content.)

Opening Exercise (0 points)

Discussion (25 points)

Mastery Exercise (10 points)

Critical Thinking (30 points)

Virtual Machines

Complete the following LabSim lab simulations:

- 6.2.9 Create Virtual Machines
- 6.3.1 Create Virtual Hard Disks
- 6.3.8 Create a Parent Virtual Machine

6.4.2 Create Virtual Switches

6.4.7 Prepare a Production Virtual Machine.

Each lab simulation will be graded automatically on a percent basis (100 possible points), which your instructor will convert to 10 points and enter in the Module 2 Critical Thinking Assignment grading rubric. *Note that you can re-work each graded lab simulation as many times as you like; therefore, if you repeat each simulation until you get a score of 100%, you can earn a perfect score on every Critical Thinking Assignment.*

When you finish each simulation assigned for this Critical Thinking Assignment, take a screenshot of the final screen to certify that you have completed all tasks. Then, paste the screen images into a Word document that includes your name, date, school name, section, course name, and instructor name and submit it from the **Assignments** page.

Module 3

Readings

- Section 7.0 in *Windows Server Pro 2016: Install and Storage (Exam 70-740)*. (Read and view all content.)
- Francis, D. (2017). Step-by-step: Setting up active directory in windows server 2016. [blog]. *Microsoft TechNet*. Retrieved from <https://blogs.technet.microsoft.com/canitpro/2017/02/22/step-by-step-setting-up-active-directory-in-windows-server-2016/>

Opening Exercise (0 points)

Discussion (25 points)

Mastery Exercise (10 points)

Critical Thinking (30 points)

Group Strategy

Complete the following LabSim lab simulations:

7.4.2 Create Organizational Units

7.5.8 Manage User Accounts

7.8.4 Create Global Groups

7.8.7 Implement a Group Strategy

7.9.4 Delegate Administrative Control.

Each lab simulation will be graded automatically on a percent basis (100 possible points), which your instructor will convert to 10 points and enter in the Module 3 Critical Thinking Assignment grading rubric. *Note that you can re-work each graded lab simulation as many times as you like; therefore, if you repeat each simulation until you get a score of 100%, you can earn a perfect score on every Critical Thinking Assignment.*

When you finish each simulation assigned for this Critical Thinking Assignment, take a screenshot of the final screen to certify that you have completed all tasks. Then, paste the screen images into a Word

document that includes your name, date, school name, section, course name, and instructor name and submit it from the **Assignments** page.

Module 4

Readings

- Section 9.0 in *Windows Server Pro 2016: Install and Storage (Exam 70-740)*. (Read and view all content.)

Opening Exercise (0 points)

Discussion (25 points)

Mastery Exercise (10 points)

Critical Thinking (30 points)

Active Directory (AD) Zones

Complete the following LabSim lab simulations:

9.2.6 Configure Forwarders

9.2.7 Create a Root Zone

9.3.7 Create an Active Directory-Integrated Zone

9.3.8 Convert a Zone to Active Directory-Integrated

9.4.4 Create a Zone and Add Records.

Each lab simulation will be graded automatically on a percent basis (100 possible points), which your instructor will convert to 10 points and enter in the Module 4 Critical Thinking Assignment grading rubric. *Note that you can re-work each graded lab simulation as many times as you like; therefore, if you repeat each simulation until you get a score of 100%, you can earn a perfect score on every Critical Thinking Assignment.*

When you finish each simulation assigned for this Critical Thinking Assignment, take a screenshot of the final screen to certify that you have completed all tasks. Then, paste the screen images into a Word document that includes your name, date, school name, section, course name, and instructor name and submit it from the **Assignments** page.

Module 5

Readings

- Sections 10.0 & 11.0 in *TestOut Server Pro 2016: Install and Storage (Exam 70-740)*. (Read and view all content.)

Opening Exercise (0 points)

Discussion (25 points)

Mastery Exercise (10 points)

Critical Thinking (50 points)

NTFS Permissions

Complete the following LabSim lab simulations:

- 10.1.7 Configure NTFS Permissions
- 10.1.9 Enable Quota Restrictions
- 10.3.10 Configure Share Permissions
- 10.5.4 Configure NTFS Permissions 1
- 10.5.5 Configure NTFS Permissions 2.

Each lab simulation will be graded automatically on a percent basis (100 possible points), which your instructor will convert to 10 points and enter in the Module 5 Critical Thinking Assignment grading rubric. *Note that you can re-work each graded lab simulation as many times as you like; therefore, if you repeat each simulation until you get a score of 100%, you can earn a perfect score on every Critical Thinking Assignment.*

When you finish each simulation assigned for this Critical Thinking Assignment, take a screenshot of the final screen to certify that you have completed all tasks. Then, paste the screen images into a Word document that includes your name, date, school name, section, course name, and instructor name and submit it from the **Assignments** page.

Module 6

Readings

- Section 8.0 in *TestOut Server Pro 2016: Install and Storage* (Exam 70-740). (Read and view all content.)

Opening Exercise (0 points)

Discussion (25 points)

Mastery Exercise (10 points)

Critical Thinking (50 points)

Group Policy

Complete the following LabSim lab simulations:

- 8.1.7 Create and Link a GPO
- 8.1.8 Create a Starter GPO
- 8.3.4 Configure Account Password Policies
- 8.4.4 Configure Audit Policies
- 8.6.3 Configure Security Options.

Each lab simulation will be graded automatically on a percent basis (100 possible points), which your instructor will convert to 10 points and enter in the Module 6 Critical Thinking Assignment grading

rubric. *Note that you can re-work each graded lab simulation as many times as you like; therefore, if you repeat each simulation until you get a score of 100%, you can earn a perfect score on every Critical Thinking Assignment.*

When you finish each simulation assigned for this Critical Thinking Assignment, take a screenshot of the final screen to certify that you have completed all tasks. Then, paste the screen images into a Word document that includes your name, date, school name, section, course name, and instructor name and submit it from the **Assignments** page.

Module 7

Readings

- Section 4.0 in *TestOut Server Pro 2016: Install and Storage* (Exam 70-740). (Read and view all content.)

Opening Exercise (0 points)

Discussion (25 points)

Mastery Exercise (10 points)

Critical Thinking (50 points)

IP Settings

Complete the following LabSim lab simulations:

4.1.8 Configure IP Settings

4.2.3 Configure IPv6.

Each lab simulation will be graded automatically on a percent basis (100 possible points), which your instructor will convert to 25 points and enter in the Module 7 Critical Thinking Assignment grading rubric. *Note that you can re-work each graded lab simulation as many times as you like; therefore, if you repeat each simulation until you get a score of 100%, you can earn a perfect score on every Critical Thinking Assignment.*

When you finish each simulation assigned for this Critical Thinking Assignment, take a screenshot of the final screen to certify that you have completed all tasks. Then, paste the screen images into a Word document that includes your name, date, school name, section, course name, and instructor name and submit it from the **Assignments** page.

Module 8

Readings

- Sections 13.0 in *TestOut Server Pro 2016: Install and Storage* (Exam 70-740). (Read and view all content.)
- Microsoft windows server 2016: DHCP server installation & configuration. (n.d.). [wiki]. *Microsoft TechNet*. Retrieved from

<https://social.technet.microsoft.com/wiki/contents/articles/51170.microsoft-windows-server-2016-dhcp-server-installation-configuration.aspx>

Opening Exercise (0 points)

Discussion (25 points)

Portfolio Project (200 points)

Deploy and Administer Windows Server 2016 (200 Points)

The Portfolio Project is due at the end of Week 8—the last week and module of the course. This assignment is a means for students to display their mastery of the material, and to provide a creative and realistic way in which to apply knowledge from ITS405.

Create a detailed, organized, and unified technical solution given a scenario described in the document linked below:

ITS405 Portfolio Project Scenario.

Your solution should draw on the content presented in the course. The outline below lists points/topics to cover. You are free to provide additional, related information.

Provide technical and justification reasons for each choice, citing resources as appropriate. Provide rough estimates of scheduling and manpower required for deploying your solution. You may summarize the schedule and manpower at the end of the document, or include it separately for each section.

The Windows Server 2016 operating system should be used for all aspects of the solution.

Your solution should cover the following four numbered areas and associated bulleted items listed under each:

1. Deployment and Server Editions

- How many total servers are needed? Which roles will be combined?
- Which edition of Windows Server will be used for each server (e.g., Standard, Data)?
- Should servers be virtualized using Hyper-V?
- Where will each of the servers be located (which of the two sites)?
- How will the servers be deployed?

2. DNS

- DNS namespace design (e.g., domain name[s] chosen split DNS for internet/intranet, zones)
- How will DNS be handled for the second site?

3. Active Directory

- Number of AD domains and names of those domains
- Will there be any Read-Only Domain Controllers?
- How will the second site factor into domain controller placement? How will AD sites be configured?

4. File and Printer Sharing

- What shares might be needed? (Consider some of the reasoning supplied in the relevant chapter of the textbook.)
- How will quotas/FSRM be configured? (Consider all aspects, such as thresholds, altering, file screens, and reporting.)
- Will a DFS namespace be implemented?

Your submission will:

1. Be in written format, 6-8 pages in length (not counting diagrams).
2. Include at least one diagram illustrating your chosen Active Directory design with DNS namespace hierarchy.
3. Cite and discuss no fewer than three credible sources, other than course readings and media. The CSU-Global Library is a great place to find these sources.

Document formatting and citations should conform to the CSU-Global Guide to Writing and APA. Submit your project from the Module 8 **Assignments** page.

Final Exam (250 Points)

Complete the TestOut Server Pro 2016 Install and Storage Certification exam, which can be accessed from your Home page in LabSim, by 11:59 p.m. MT of Week 8.

The exam can contain up to 16 performance-based questions and as many as 55 tasks. You will be allowed 120 minutes (two hours) to complete the exam. You are allowed to take the exam only once.

COURSE POLICIES

Grading Scale	
A	95.0 – 100
A-	90.0 – 94.9
B+	86.7 – 89.9
B	83.3 – 86.6
B-	80.0 – 83.2
C+	75.0 – 79.9
C	70.0 – 74.9
D	60.0 – 69.9
F	59.9 or below

Course Grading

Discussions	20%
Opening Exercises	0%
Mastery Exercises	8%
Critical Thinking	27%
Portfolio Project	20%
Final Exam	25%

IN-CLASSROOM POLICIES

For information on late work and incomplete grade policies, please refer to our [In-Classroom Student Policies and Guidelines](#) or the Academic Catalog for comprehensive documentation of CSU-Global institutional policies.

Academic Integrity

Students must assume responsibility for maintaining honesty in all work submitted for credit and in any other work designated by the instructor of the course. Academic dishonesty includes cheating, fabrication, facilitating academic dishonesty, plagiarism, reusing /repurposing your own work (see CSU-Global Guide to Writing & APA for percentage of repurposed work that can be used in an assignment), unauthorized possession of academic materials, and unauthorized collaboration. The CSU-Global Library provides information on how students can avoid plagiarism by understanding what it is and how to use the Library and internet resources.

Citing Sources with APA Style

All students are expected to follow the CSU-Global Guide to Writing & APA when citing in APA (based on the most recent APA style manual) for all assignments. A link to this guide should also be provided within most assignment descriptions in your course.

Disability Services Statement

CSU-Global is committed to providing reasonable accommodations for all persons with disabilities. Any student with a documented disability requesting academic accommodations should contact the Disability Resource Coordinator at 720-279-0650 and/or email ada@CSUGlobal.edu for additional information to coordinate reasonable accommodations for students with documented disabilities.

Netiquette

Respect the diversity of opinions among the instructor and classmates and engage with them in a courteous, respectful, and professional manner. All posts and classroom communication must be conducted in accordance with the student code of conduct. Think before you push the Send button. Did you say just what you meant? How will the person on the other end read the words?

Maintain an environment free of harassment, stalking, threats, abuse, insults, or humiliation toward the instructor and classmates. This includes, but is not limited to, demeaning written or oral comments of an ethnic, religious, age, disability, sexist (or sexual orientation), or racist nature; and the unwanted sexual advances or intimidations by email, or on discussion boards and other postings within or connected to the online classroom. If you have concerns about something that has been said, please let your instructor know.