



# MIS 273: Systems Administration I

(Winter 2021, Section 01W)

Professor: Ron Little  
Classroom: Zoom and Canvas  
Email: [ronald.little@oit.edu](mailto:ronald.little@oit.edu)  
Cell: 541-556-1423

Office Hours: Available via Zoom: Days and hours posted on Canvas.

Note: **The Fastest way to reach me is via Email.** If you want to meet with me on Zoom outside my office hours arrange a time using email.

## Course Overview

Introduces the fundamental skills required to install and configure a Windows Server. Topics covered include: Hyper-V, Active Directory, DNS, DHCP, Group Policy, and File and Print Services.

## Prerequisites

Prerequisite: MIS 145 (Introduction to PC Hardware / Software) with a "C" or better

## Textbook / Learning Resources

(1.) Required

Course Book (EPUB):

70-740 Installation, Storage, and Compute with Windows Server 2016 EPUB by Microsoft

Official Academic Course

Format: Digital Product

ISBN: 978-1-119-29862-5

Edition: 15th

Copyright year: 2017

Available from: Bookstore, VitalSource, Amazon Kindle, etc.

## (2.) Required

### Lab Manual:

70-740 Installation, Storage, and Compute with Windows Server 2016 Lab Manual  
by Microsoft Official Academic Course

Publisher: Wiley

Print ISBN: 9781119304944, 1119304946

eText ISBN: 9781119405900, 1119405904

Edition: 15th

Copyright year: 2017

Available from: Bookstore, VitalSource, Amazon Kindle, etc.

Students may obtain the electronic texts (book and lab manual) from the OIT Bookstore or the publisher, etc.

Feel free to let me know if you have any other questions.

## Course Structure

This course will be taught fully online using Canvas and Zoom.

## Grades

Your course grade will be calculated based on the scores in each of these weighted categories:

Activity	
<b>Labs / Assignments</b>	50%
<b>Quizzes</b>	10%
<b>Midterm Exam</b>	20%
<b>Final Exam</b>	20%

Letter grades will be assigned based on the following scale:

90%-100% = A, 80%-89% = B, 70%-79% = C, 60%-69% = D, <60% = F

## Late Policy

Assignments need to be completed in a timely manner; as such I will accept assignments up through the due date – posted to Canvas. Without prior instructor approval (prior to the day of class) I will accept late homework the following week for 1/2 credit. You need my approval to get full credit for late assignments.

## Learning Outcomes

After successfully completing this course a student should have strong knowledge of and familiarity with the systems aspects mentioned below. Students should be able to design, configure, and demonstrate competency in the following areas:

- 1: Windows Server 2016
- 2: Installing, Upgrading, and Migrating Servers as Workloads
- 3: Configuring Disks and Volumes
- 4: Implementing Server Storage
- 5: Implementing Data Deduplication
- 6: Creating, Managing, and Maintaining Images for Deployment
- 7: Installing and Configuring Hyper-V
- 8: Configuring Virtual Machine (VM) Images
- 9: Configuring Hyper-V Storage
- 10: Configuring Hyper-V Networking
- 11: Installing and Configuring Windows Nano Server
- 12: Deploying and Managing Windows Containers
- 13: Implementing Failover Clustering
- 14: Managing Failover Clustering
- 15: Implementing High Availability and Disaster Recovery Options in Hyper-V
- 16: Implementing Storage Direct Spaces
- 17: Implementing Network Load Balancing
- 18: Maintaining Server Installations
- 19: Monitoring Server Installations

## Course Outline

Week	Topic	
1	Chap 01: Windows Server 2016 Chap 02: Installing, Upgrading, and Migrating Servers as Workloads Lab: Windows Server 2016 Installation	Quiz 1
2	Chap 03: Configuring Disks and Volumes Chap 04: Implementing Server Storage Lab: Disks and Permissions	Quiz 2
3	Chap 05: Implementing Data Deduplication Chap 06: Creating, Managing, and Maintaining Images for Deployment Lab: Data Deduplication	Quiz 3
4	Chap 07: Installing and Configuring Hyper-V Chap 08: Configuring Virtual Machine (VM) Images Lab: Hyper-V and Related Hypervisors, Configuring VMs	Quiz 4
5	Chap 09: Configuring Hyper-V Storage Chap 10: Configuring Hyper-V Networking Lab: Hyper-V Storage and Networking	Quiz 5
6	Chap 11: Installing and Configuring Windows Nano Server Chap 12: Deploying and Managing Windows Containers Lab: Windows Nano Server and Containers	Midterm Quiz 6
7	Chap 13: Implementing Failover Clustering Chap 14: Managing Failover Clustering Lab: Failover Clustering	Quiz 7
8	Chap 15: Implementing High Availability & Disaster Recovery Options in Hyper-V Chap 16: Implementing Storage Direct Spaces Lab: Disaster Recovery	Quiz 8
9	Chap 17: Implementing Network Load Balancing Chap 18: Maintaining Server Installations Chap 19: Monitoring Server Installations Lab: Systems Management and Monitoring	Quiz 9
10	Week 10 will be catch up week; Final Exam will be during Final's Week	

## General Course Policy Statements

### Changes to Syllabus and Course Schedule

This syllabus serves as a general set of guidelines for the delivery of this course. The instructor reserves the right to adjust course topics, scheduled activities and assignments as needed to best facilitate the course objectives.

### Academic Integrity

Students are expected to demonstrate their knowledge with honesty and integrity. Oregon Tech considers academic dishonesty to be an unacceptable practice. The complete Oregon Tech Student Academic Integrity Policy is available on the Oregon Tech website.

### Dropping the Course

Please note that it is your responsibility to drop the course via Web for Students. If you decide that you must drop the course, you will need to do so by the close of the fifth calendar day of the term (Friday) in order to receive a full 100% refund. If you drop by the close of the 12th calendar day of the term, your refund will be 85%; if you drop by the close of the 19th calendar day, your refund will be 25%, and thereafter you cannot receive a refund.

### Incomplete Grades

In order to be eligible for an "Incomplete" grade, Oregon Tech policy requires that students must have completed 80% of all course work by the time grades are due at the end of finals week. An Incomplete is not automatic and are arraigned at the discretion of the instructor. If you have a personal matter preventing you from completing the course and have successfully completed most of the course work, please contact me as soon as possible.

### OIT Disability Statement

Students with a documented disability who require assistance or academic accommodations should contact the office of Disability Services immediately to discuss eligibility. Disability Services staff are located on both the Klamath Falls and Wilsonville campuses, however arrangements can be made to meet with a student on any campus. Meetings are by appointment only, so please contact the Disability Services office at the campus closest to you: Klamath Falls (541) 885-1790 and Portland-Metro (503) 821-1305. Specific information and Disability Services forms can be found at [www.oit.edu](http://www.oit.edu), then go to "Academics" and click on "Student Success Center" and then "Disability Services." This link leads to the department's website: <http://www.oit.edu/academics/ssc/disability-services>