



North Central State College  
MASTER SYLLABUS  
2018-2019

- A. Academic Division: Business, Industry, and Technology
- B. Discipline: Information Technology - Networking
- C. Course Number and Title: ITEC2610 – Implementing Windows Server
- D. Course Coordinator: Jesse Payne  
Assistant Dean: Toni Johnson, PhD

Instructor Information:

- Name: Click here to enter text.
- Office Location: Click here to enter text.
- Office Hours: Click here to enter text.
- Phone Number: Click here to enter text.
- E-Mail Address: Click here to enter text.

- E. Credit Hours: 3  
Lecture: 2 hours  
Laboratory: 2 hours
- F. Prerequisites: ITEC 1420 (minimum grade of C- required) or ITEC1610 (minimum grade of C- required)
- G. Syllabus Effective Date: Fall 2018
- H. Textbook(s) Title:

- TBD

- I. Workbook(s) and/or Lab Manual: An external USB 3.0 hard drive, 500 gigabytes or larger is required.
- J. Course Description: This course focuses on the installation, storage, and compute features in Windows Server 2016. It covers general installation tasks and considerations, and the management of images for deployment. Upon successful completion of the course, students will be able to implement and configure Windows Server compute resources and Hyper-V virtualization services in an enterprise environment. This course prepares students for Microsoft's 70-740 certification exam: Installation, Storage, and Compute with Windows Server 2016.
- K. College-Wide Learning Outcomes:

College-Wide Learning Outcome	Assessments - - How it is met & When it is met
Communication – Written	
Communication – Speech	
Intercultural Knowledge and Competence	
Critical Thinking	
Information Literacy	
Quantitative Literacy	

L. Course Outcomes and Assessment Methods:

Upon successful completion of this course, the student shall:

Outcomes	Assessments – How it is met & When it is met
1. Install, upgrade, and migrate servers for a given set of conditions	Weeks 1-2 tests, labs, midterm/final exam
2. Implement and configure Windows server storage solutions for a given set of conditions	Weeks 3-4 tests, labs, midterm/final exam
3. Install and configure Hyper-V	Weeks 5-8 tests, labs, midterm/final exam
4. Configure virtual machine (VM) settings	Weeks 5-8 tests, labs, midterm/final exam
5. Configure Hyper-V storage and networking	Weeks 5-8 tests, labs, midterm/final exam
6. Deploy and manage Windows Containers	Week 9 tests, labs final exam
7. Implement high availability and disaster recovery options in Hyper-V	Weeks 10-13 tests, labs final exam
8. Implement and manage failover clustering and load balancing	Weeks 10-13 tests, labs final exam
9. Monitor and maintain server installations for a given set of conditions	Weeks 14-15 tests, labs final exam

M. Topical Timeline (Subject to Change):

Weeks 1–2: Install Windows Servers in Host and Compute Environments (10-15%)

- a. Install, upgrade, and migrate servers and workloads
- b. Create, manage, and maintain images for deployment

Weeks 3-4: Implement Storage Solutions (10-15%)

- a. Configure disks and volumes
- b. Implement server storage
- c. Implement data deduplication

Weeks 5-8: Implement Hyper-V (20-25%)

- a. Install and configure Hyper-V
- b. Configure virtual machine (VM) settings
- c. Configure Hyper-V storage
- d. Configure Hyper-V networking

Week 9: Implement Windows Containers (5-10%)

- a. Deploy Windows containers
- b. Manage Windows containers

Weeks 10–13: Implement High Availability (30-35%)

- a. Implement high availability and disaster recovery options in Hyper-V
- b. Implement failover clustering
- c. Implement Storage Spaces Direct
- d. Manage failover clustering
- e. Manage VM movement in clustered nodes
- f. Implement Network Load Balancing (NLB)

Weeks 14–15: Maintain and Monitor Server Environments (10-15%)

- a. Maintain server installations
- b. Monitor server installations

N. Course Assignments:

1. Tests
2. Labs
3. Midterm/Final Exams
4. Final Project (optional)

O. Recommended Grading Scale:

NUMERIC	GRADE	POINTS	DEFINITION
93-100	A	4.00	Superior
90-92	A-	3.67	Superior
87-89	B+	3.33	Above Average
83-86	B	3.00	Above Average
80-82	B-	2.67	Above Average
77-79	C+	2.33	Average
73-76	C	2.00	Average
70-72	C-	1.67	Below Average
67-69	D+	1.33	Below Average
63-66	D	1.00	Below Average
60-62	D-	0.67	Poor
00-59	F	0.00	Failure

P. Grading and Testing Guidelines:

Click here to enter text.

Q. Examination Policy:

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R. Class Attendance and Homework Make-Up Policy:

Click here to enter text.

S. Classroom Expectations:

Click here to enter text.

T. College Procedures/Policies:

**Important information regarding College Procedures and Policies can be found on the [syllabus supplement](#) located at <https://sharept.ncstatecollege.edu/committees/1/curriculum/SiteAssets/SitePages/Home/SYLLABUS%20SUPPLEMENT.pdf>**

**The information can also be found** Choose an item.