



North Central State College

MASTER SYLLABUS

2025-2026

- A. Academic Division: Engineering Technology, Business & Criminal Justice Division
- B. Discipline: Information Technology - Networking
- C. Course Number and Title: ITEC2610 – Implementing Windows Server
- D. Assistant Dean: Brooke Miller, M.B.A.
- 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. Last Course/Curriculum Revision Date: Fall 2025 Origin date: 02/17/2014
- H. Textbook(s) Title:
Hybrid Server Pro: Core
 - Authors: Test Out
 - Publisher: Test Out
 - Copyright Year: 2023
 - ISBN#: 9781935080848
External USB 3.2 Hard Drive
 - ISBN 8780000191138
 - 500 Gigabytes or larger
- 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	



North Central State College
SYLLABUS ADDENDUM

Academic Division:	Engineering Technology, Business & Criminal Justice Division	Discipline:	Information Technology
Course Coordinator:	Daniel Foss		
Course Number:	ITEC-2610-900	Course Title:	Implementing Window Server Core
Semester / Session:	Fall 2025	Start / End Date:	8/11/2025 thru 12/12/2025

Instructor Information

Name:	Daniel Foss	Credentials:	M.Ed., Curriculum and Instruction – Computer B.S., Education
Phone Number:	419-755-4728	E-Mail Address:	dfoss@ncstatecollege.edu
			Mondays 10:00am - 1:00pm Wednesdays, 8:00-10:00am at Kehoe 139 https://tinyurl.com/ITEC-Office-Hours
Office Location:	Kehoe Room 141 https://ncsc.zoom.us/j/88982241963	Office Hours:	Other days/times by appointment

I. Topical Timeline / Course Calendar (Subject to Change – refer to Canvas for schedule):

Week	Modules Covered	Assignments	Due Date (Friday)
1	Week 1 HSC1.0	Hybrid Server Core (HSC)- Windows/Azure interface labs; Presentation: 1.0 Course Introduction, Practice questions; Chapter 1 Composite Lab, Quiz - Windows Client Interface	15-Aug-25
2	Week 2 HSC2.0	Presentation: 2.0 On-Premises Windows Server, Hyper-V lab; File Server role; Remote Desktop; Practice sets; Chapter 2 Lab, Quiz - Windows Server Installation, Quiz - Server Roles, Quiz - PowerShell, Quiz - Server Core, Quiz - Server Manager Quiz - Server Monitoring, Quiz - Remote Management,	22-Aug-25
3	Week 3 HSC3.0	Presentation: 3.0 Cloud and Azure, Template VM lab; Practice questions; Chapter 3 Lab, Quiz - Cloud Services, Quiz - Azure Architecture,	29-Aug-25
4	Week 4 HSC4.0	Presentation: 4.0 Manage IP Addressing, IP config, DHCP, IPv6, NIC teaming labs; Practice sets; Chapter 4 Lab, Quiz - IP, DHCP, IPv6, IPAM, NIC Teaming, Quiz - IP, DHCP, IPv6, IPAM, NIC Teaming,	5-Sep-25
5	Week 5 HSC5.0	Presentation: 5.0 Implement DNS, DNS zones, records, troubleshooting, DNSSEC; Practice sets; Chapter 5Lab, Quiz - DNS and Hybrid Name Resolution, Quiz - DNS and Hybrid Name Resolution,	12-Sep-25
6	Week 6 HSC6.0	Presentation: 6.0 Active Directory, AD Part 1 labs; Trusts; Replication; Practice sets; Chapter 6 Lab, Quiz - AD, Azure AD, Trusts, Sites, Replication	19-Sep-25
7	Week 7 HSC7.0	Presentation: 7.0 Active Directory Objects, AD Part 2 labs; OUs, users, groups; Delegation; Practice sets; Chapter 7 Lab, Quiz - AD Design, Users, Groups, Delegation	26-Sep-25
8	Week 8 HSC8.0	Presentation: 8.0 Group Policy, Group Policy labs; GPOs, security, AppLocker; Practice sets; Chapter 8 Lab, Quiz - Group Policy, Audit, Security	3-Oct-25
		Fall Break	10-Oct-25
9	Week 9 HSC9.0	Presentation: 9.0 Manage Servers and Workloads in A Hybrid Environment, Hybrid server labs; Azure Arc; PowerShell; Practice sets; Chapter 9Lab, Quiz - Admin Center, Azure Arc, Monitoring	17-Oct-25
10	Week 10 HSC10.0	Presentation: 10.0 Manage Storage Service, Storage volumes, NTFS, quotas; Practice sets; Chapter 10Lab, Quiz - Storage, NTFS, Permissions	24-Oct-25
11	Week 11 HSC11.0	Presentation: 11.0 Manage File Service, File sharing, DFS, Azure File Sync; Practice sets; Chapter 11 Lab, Quiz - File Services, DFS, Azure File Sync	31-Oct-25

12	Week 12 HSC12.0	Presentation: 12.0 Virtualization and Containers, Virtualization labs; VMs, VHDs, switches; Practice sets; Chapter 12 Lab, Quiz - Virtualization, Hyper-V, Containers	7-Nov-25
13	Week 13 HSC13.0	Presentation: 13.0 On-Premises and Hybrid Network Connectivity, RADIUS, VPN labs; Practice sets; Chapter 13 Lab, Quiz - Remote Access, VPN, Azure Networking	14-Nov-25
	Break	Thanksgiving	21-Nov-25
14	Week 14	Practice Final Exam - Part A - TestOut Hybrid Server Pro: Core Certification exam. , Practice Final Exam - Part B	28-Nov-25
15	Week 15 Practice Exams	Microsoft AZ-800 Practice Exams	5-Dec-25
16	Finals Week	Final Exam - TestOut Hybrid Server Pro: Core Certification exam	12-Dec-25

II. Grading and Testing Guidelines:

Category	Count	Points	Weight
Labs	85	850	40%
Quizzes	65	650	30%
Exams	10	500	30%

- Grading scale is the college 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

III. Examination Policy:

- All exams must be submitted through the Hybrid Server Core (HSC)/CompTIA LMS and/or Canvas.
- You may reference the online curriculum, official HSC /CompTIA documentation, and other reputable sources.
- Collaboration on exams is not permitted unless explicitly authorized.
- AI tools (e.g., Copilot, ChatGPT) are not allowed during quizzes or exams.
- Free Tutoring Service is available: <https://ncstatecollege.edu/student-services/tutoring/>

Assignment Policy:

- All assignments must be completed using the HSC /CompTIA LMS and/or Canvas.
- AI Tools like Copilot and ChatGPT may be used for feedback or clarification, but final submissions must reflect your own independent work.
- Use of the online curriculum for reference is encouraged.
- You may consult documentation, tutorials, and forums for guidance.
- Download, complete, and upload your own work. All submitted project files must be your own original work.
- Plagiarism or submission of work not your own is a serious offense and may result in course failure.
- If you need assistance with the course assignments, contact the Tutoring Department or the Instructor. Tutoring Information (free) can be found at: <https://ncstatecollege.edu/student-services/tutoring/>

IV. Course Attendance and Late Assignment Policy:

- Class attendance is recorded by completion of weekly assignments and activities.
- Assignments are due before midnight every Friday.
- Early submissions are encouraged.
- Except for the final project, all assignments are allowed to be submitted late.
- Each assignment builds on previous work, do not skip assignments. If it is late, submit as soon as possible.
- If you anticipate missing a deadline, contact the instructor in advance to discuss possible accommodation.
- Excused absences include:
 - a. Hospitalization
 - b. Death in the family
 - c. Personal illness or illness in immediate family
 - d. Military leave
 - e. Travel for employment

V. Course Expectations:

- All students are expected to demonstrate professional behavior and use language appropriate for the learning experience, both written and orally.
- For online classes, students are required to have access to an internet connection and a laptop or desktop computer. Chromebooks are not adequate for this course.
- MacBooks are acceptable, however, there may be some assignments that can only be completed on a Windows computer.
- The college provides free computer labs - <https://ncstatecollege.edu/student-services/computer-labs/> and loaner laptops - <https://ncstatecollege.edu/advocacy-and-resources/> - select Technology Resources

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. 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

N. College Procedures/Policies:

North Central State College believes that every student is a valued and equal member of the community.* Every student brings different experiences to the College, and all are important in enriching academic life and developing greater understanding and appreciation of one another. Therefore, NC State College creates an inclusive culture in which students feel comfortable sharing their experiences. Discrimination and prejudice have no place on the campus, and the College takes any complaint in this regard seriously. Students encountering aspects of the instruction that result in barriers to their sense of being included and respected should contact the instructor, assistant dean, or dean without fear of reprisal.

* *Inclusive of race, color, religion, gender, gender identity or expression, national origin (ancestry), military status (past, present or future), disability, age (40 years or older), status as a parent during pregnancy and immediately after the birth of a child, status as a parent of a young child, status as a foster parent, genetic information, or sexual orientation*

Important information regarding College Procedures and Policies can be found on the syllabus supplement located at

<https://ncstatecollege.edu/documents/President/PoliciesProcedures/PolicyManual/Final%20PDFs/14-081b.pdf>