



North Central State College

MASTER SYLLABUS	2025-2026
------------------------	------------------

- A. Academic Division: Business, Industry, and Technology
- B. Discipline: Information Technology - Cybersecurity
- C. Course Number and Title: ITEC2460 - Cloud Computing
- D. Assistant Dean: Brooke Miller, M.B.A.
- E. Credit Hours: 3
Lecture: 2 hours
Laboratory: 2 hours
- F. Prerequisites: ITEC1420 (minimum grade of C-) or ITEC1610 (minimum grade of C-)
- G. Last Course/Curriculum Revision Date: Fall 2025 Origin date: 01/01/2021

H. Textbook(s) Title:

Cloud+ CertMaster Perform – (Prepares for: CompTIA Cloud+ (CV0-004)

- Copyright Year: 2025
- Edition: 4th
- ISBN: 978-1-64274-529-0

I. Workbook(s) and/or Lab Manual:

J. Course Description: This course offers an introduction to cloud computing overview, concepts, and models. This course serves as a basis for understanding the standard cloud terminologies and methodologies needed to implement, maintain, and support cloud technologies and infrastructure. This course covers 100% of all exam CompTIA Cloud+ CV0-002, with a practical focus on real-world skills. Topics include cloud service and delivery models, various types of disk storage systems network infrastructure and management, virtualization components, performance tuning, systems management, troubleshooting and security. Mobile Device Management (MDM), business continuity and disaster recovery are also covered.

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. Identify the standard cloud terminologies.	Weeks 1-3 tests, labs, midterm/final exam, final project
2. Identify the methodology to implement, maintain, and support cloud technologies.	Weeks 1-3,7-10 tests, labs, midterm/final exam, final project
3. Explain compute virtualization in the cloud	Weeks 2-4, 15 tests, labs, midterm/final exam, final project
4. Explain cloud infrastructure, and operations.	Weeks 8-10, 16 tests, labs, midterm/final exam, final project
5. Describe resource management in the cloud and how it is used.	Weeks 10,12-15 tests, labs, final exam, final project
6. Apply security best practices in the cloud.	Weeks 9,13-15 tests, labs, final exam, final project
7. Describe business continuity plan in the cloud.	Weeks 8-10,15 tests, labs, final exam, final project
8. Describe disaster recovery plans in the cloud	Weeks 7-10,16 tests, labs, final exam, final project

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>



North Central State College
SYLLABUS ADDENDUM

Academic Division: Engineering Technology, Business & Criminal Justice Division **Discipline:** Information Technology - Networking
Course Coordinator: Dr. Mohamed Ghonimy
Course Number: ITEC-2460-920 **Course Title:** Cloud Computing
Semester / Session: Fall 2026 / Session B **Start / End Date:** 3/16/2026 thru 5/8/2026

Instructor Information

Name: Dr. Mohamed Ghonimy **Credentials:** Ph.D
Phone Number: 419-755-4528 **E-Mail Address:** mghonimy@ncstatecollege.edu
Office Location: Kehoe 136 **Office Hours:** M, W 2- 5

I. Topical Timeline / Course Calendar (Subject to Change):

Weeks	Topics	Assignment	Due Date
1	Understanding Cloud Architecture Planning Cloud Services	LabSim CH-1 LabSim CH-2	3/22/2026
2	Provisioning and Migrating Cloud Resources Comparing Cloud Storage	LabSim CH-3 LabSim CH-4	3/29/2026
3	Troubleshooting Deployment Issue and Cost Using Virtualization and Databases	LabSim CH-5 LabSim CH-6	4/5/2026
4	Comprehending cloud networking Automating Cloud Resources	LabSim CH-7 LabSim CH-8	4/12/2026
5	Implementing Security Management Comprehending Security Compliance and Troubleshooting	LabSim CH-9 LabSim CH-10	4/19/2026
6	Implementing Performance and Monitoring Managing Disaster Recovery and Business Continuity	LabSim CH-11 LabSim CH-12	4/26/2026
7	Final Project	Final Project	5/3/2026
8	Final Exam		5/6/2026

II. Grading and Testing Guidelines:

Final Grade Calculation

Activity	Qty	Points	Percentage
Quizzes	15	100	30
Labs	15	100	30
Project	1	100	20
Final Exam	1	100	20

III. Examination Policy:

1. The reasons for which a student will be excused from taking an examination
 - a. Hospitalization (with documented verification)
 - b. Death in the immediate family (with documented verification)
 - c. Personal illness or illness in immediate family - (doctor's excuse required).
2. A student who misses an examination for any reason is responsible for
 - a. Studying all covered materials for the week
 - b. Doing homework
3. No makeup opportunity will be given for absences of unscheduled quizzes.

IV. Class Attendance and Homework Make-Up Policy:

1. Class attendance is necessary to acquire the knowledge required to succeed in this course. All students are required to attend all scheduled classes and examinations. Each faculty member has the right to establish regulations regarding attendance that he/she considers necessary for successful study.

Students who do not attend classes may be administratively withdrawn from those classes. However, failure to attend classes does not constitute withdrawal, and students are expected to process a formal withdrawal through the Student Records Office

2. Students are responsible for
 - a. Studying the covered material for the week
 - b. Do the homework

V. Classroom Expectations:

As a future professional in your field, you will be expected to conduct yourself as a professional in this course in ALL work and communications - be it assignments, discussion forums, Canvas Inbox, emails etc.

This includes but is not limited to:

Being respectful of classmates' opinions, work and comments

Good test = Is this something I would/should say to a co-worker in person?

Being respectful in communications with the instructor

Good test = Is this something I would/should say to my boss in the workplace?

Being respectful of diversity

Good test = Is this a comment/joke that is at some other groups, ethnicity, political etc. expense?

Note: Offensive "jokes", slurs or hate speech (Links to an external site.) will NOT be tolerated

Using Non-Profane, Appropriate Language

Good test = Is this language you would use in the workplace or in front of your grandmother?

Course Number: ITEC-2460-920
Semester / Session: Spring

Course Title: Cloud Computing
Start / End Date: 5/16/2026 – 5/8/2026

Using proper. NON-"Text speak" Language to make Yourself Easily Understood

Good test = Could my older boss understand what I have written?

Failure to conduct yourself as a professional and meet standards above in this course will result in the following consequences in this course:

1st Instance = Written warning from the instructor documenting issue

(No points deductions)

2nd offense = Mandatory meeting with the instructor and or Assistant Dean or Division Dean

(Related assignment/Participation subject to Point Deductions)

3rd offense: College Disciplinary procedures filed with the NC State Judicial Committee as a violation of the Student Code of Conduct.

(Course Grade subject to F)

Extreme or repeated unprofessional behavior will result in initiating college disciplinary procedures as outlined in the NC State Student Code of Conduct. (Links to an external site.) NCSC Disciplinary hearings can result in a variety of consequences, including and up to suspension or being expelled from the college.

College Procedures/Policies:

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 <http://catalog.ncstatecollege.edu/mime/download.pdf?catoid=5&ftype=2&foid=3>

Please make sure you watch “Surviving active shooter” video and discuss with your instructor any concerns you have including classroom and building exits.

<https://www.youtube.com/watch?v=9Z9zkU--FLQ>.

Course Number: ITEC-2460-920
Semester / Session: Spring

Course Title: Cloud Computing
Start / End Date: 5/16/2026 – 5/8/2026