



North Central State College
MASTER SYLLABUS
2019-2020

- A. Academic Division: Business, Industry, and Technology
- B. Discipline: Information Technology - Cybersecurity
- C. Course Number and Title: ITEC2460 - Cloud Computing
- D. Course Coordinator: Mohamed Ghonimy
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: ITEC1420 (minimum grade of C-) or ITEC1610 (minimum grade of C-)
- G. Syllabus Effective Date: Fall, 2019
- H. Textbook(s) Title:

CompTIA Cloud+ Study Guide, Exam CVO-002

- Author(s): Montgomery, Olson
- Copyright Year: 2018
- Edition: 2nd
- ISBN: 9781119443056

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

M. Topical Timeline (Subject to Change):

- Week 1, Section 1: Cloud Computing overview, Concepts and models
- Week 2, Section 2: Compute Virtualization in the Cloud
- Week 3, Section 3: Cloud Storage and Provisioning
- Week 4, Section 4: Cloud Networks Concepts and Implementation
- Week 5, Section 5: Cloud Compute Resources, Concepts, and Implementation
- Week 6, Section 6: Mid-Term
- Week 7, Section 7: Cloud Management Concepts
- Week 8, Section 8: Cloud Operations
- Week 9, Section 9: Understanding and Maintaining Cloud Security
- Week 10, Section 10: Systems Management in the Cloud
- Week 11, Section 11: Understanding Business Continuity in the Cloud
- Week 12, Section 12: Bring your Own Device
- Week 13, Section 13: Security in Mobile Devices
- Week 14, section 14: Real-World Cloud applications
- Week 15, Section 15: Course Review and Final Examination
- Week 16 Section 16: Final Project

N. Course Assignments:

1. Labs
2. Practice Questions
3. Tests
4. Midterm Exam
5. Final Project
6. Final Exam

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.