North Central State College

MASTER SYLLABUS
2020-2021

A. Academic Division: Business, Industry, and Technology

B. Discipline: Information Technology - Networking

C. Course Number and Title: ITEC1665 – Enterprise Networking, Security, and Automation CCNA3

D. Course Coordinator: Brian Baldridge
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: 2
Lecture: 1 hour
Laboratory: 2 hours

F. Prerequisites: ITEC 1645 (minimum grade C-)

G. Syllabus Effective Date: Fall 2020

H. Textbook(s) Title:

Provided

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

J. Course Description: This is the third course in a series of three. The curriculum provides a comprehensive introduction to the networking field and in-depth exposure to fundamental networking, LAN switching, wireless LANs, basic routing, Cybersecurity, WAN concepts, VPNs, QoS, virtualization, and network automation. Threaded throughout the course are security concepts and skills including threat mitigation through LAN security, ACLs, and IPsec. Through hands-on lab activities, students learn how to implement network technologies and troubleshoot common issues. This course, together with ITEC 1640 and ITEC 1645, prepares students for Cisco's CCNA certification exam.

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. Explain how single-area OSPF operates in both point-to-point and broadcast multi-access networks.	Week 1 tests, labs, practice and final exams
2. Implement single-area OSPFv2 in both point-to-point and broadcast multi-access networks.	Week 2 tests, labs, practice and final exams
3. Explain how vulnerabilities, threats, and exploits can be mitigated to enhance network security.	Week 3 tests, labs, practice and final exams
4. Implement IPv4 ACLs to filter traffic and secure administrative access.	Week 4 tests, labs, practice and final exams
5. Explain how VPNs and IPsec are used to secure site-to-site and remote access connectivity.	Week 5 tests, labs, practice and final exams
6. Explain how networking devices implement QoS.	Week 6 tests, labs, practice and final exams
7. Implement network management protocols to monitor the network.	Week 7 tests, labs, practice and final exams
8. Troubleshoot enterprise networks for a given set of conditions.	Week 8 tests, labs, practice and final exams
9. Explain the purpose and characteristics of network virtualization.	Week 8 tests, labs, practice and final exams

M. Topical Timeline (Subject to Change):
Click here to enter text.

N. Course Assignments:

1. Tests
2. Labs
3. Practice Exam
4. 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:

Click here to enter text.

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.