



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: ITEC1640 – Introduction to Networks CCNA1
- D. Course Coordinator: Brian Baldrige
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: None
- G. Syllabus Effective Date: Fall 2020
- H. Textbook(s) Title:

- Provided

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

- J. Course Description: This is the first 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 1645](#) and [ITEC 1665](#), prepares students for Cisco's CCNA certification exam. CTAG: CTIT007

- 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. Implement initial settings including passwords, IP addressing, and default gateway parameters on a network switch and end devices.	Week 1 tests, labs, practice and final exams
2. Explain how network protocols enable devices to access local and remote network resources.	Week 2 tests, labs, practice and final exams
3. Explain how physical layer protocols, services, and network media support communications across data network.	Week 3 tests, labs, practice and final exams
4. Explain how media access control in the data link layer supports communication across networks.	Week 4 tests, labs, practice and final exams
5. Explain how Ethernet operates in a switched network.	Week 5 tests, labs, practice and final exams
6. Explain how routers use network layer protocols and services to enable end-to-end connectivity.	Week 6 tests, labs, practice and final exams
7. Explain how ARP and ND enable communication on a local area network.	Week 7 tests, labs, practice and final exams
8. Implement initial settings on a router and end devices.	Week 7 tests, labs, practice and final exams
9. Compare the operations of transport and application layer protocols in supporting end-to-end communication.	Week 8 tests, labs, practice and final exams

M. Topical Timeline (Subject to Change):

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:

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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.