



North Central State College  
MASTER SYLLABUS  
2019-2020

A. Academic Division: Business, Industry, and Technology

B. Discipline: Information Technology - Networking

C. Course Number and Title: ITEC1620 – Wireshark 101

D. Course Coordinator: Jesse Payne  
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 1640 (minimum grade C-)

G. Syllabus Effective Date: Fall 2019

H. Textbook(s) Title:

*Wireshark 101: Essential Skills for Network Analysis*

- Author: Laura Chappell
- Copyright Year: 2017
- Edition: 2nd
- ISBN#: 9781893939752

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

J. Course Description: This course provides a starting point for analyzing network traffic, troubleshooting network performance, and detecting network security related incidents. Students will capture, filter, and analyze network traffic based on network protocols, applications, and data origin.

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:

<b>Outcomes</b>	<b>Assessments – How it is met &amp; When it is met</b>
1. Create virtual machines and networks	Weeks 1-2, labs, tests, mid-term and final exam
2. Compare and contrast packets and frames	Weeks 1-2, labs, tests, mid-term and final exam
3. Describe Wireshark program elements and settings	Weeks 3-6, labs, tests, mid-term and final exam
4. Identify Wireshark capture methods and associated filters	Weeks 7-9, labs, tests, mid-term and final exam
5. Demonstrate how to mark and export packet captures	Week 10, labs, tests, and final exam
6. Create tables and graphs from captured data	Week 11, labs, tests, and final exam
7. Demonstrate how to reassemble network traffic	Week 12, labs, tests, and final exam
8. Select the appropriate command line tool for a given set of conditions	Week 14, lab, tests, final exam

M. Topical Timeline (Subject to Change):

Week 1: Virtual Machines and Networks  
Week 2: Network Protocols  
Week 3: Exploring Wireshark Elements and Traffic Flows  
Week 4: Labs  
Week 5: Wireshark Views and Settings  
Week 6: Labs  
Week 7: Capture Methods and Filters  
Week 8: Display Filters  
Week 9: Labs  
Week 10: Marking and Exporting Packets  
Week 11: Tables and Graphs  
Week 12: Traffic Reassembly  
Week 13: Commenting Trace Files and Packets  
Week 14: Command Line Tools  
Week 15: Labs  
Week 16: Final Exam/Makeup Labs

N. Course Assignments:

1. Labs
2. Tests
3. Midterm 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.