



North Central State College
MASTER SYLLABUS
2019-2020

- A. Academic Division: Business, Industry, and Technology
- B. Discipline: Information Technology – Cyber Security
- C. Course Number and Title: ITEC2450 – Computer Hacking Forensic Investigator (CHFI)
- 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: 3 hours
- F. Prerequisites: ITEC1430 (minimum grade of C-)
- G. Syllabus Effective Date: Fall 2019
- H. Textbook(s) Title: TBD
- I. Workbook(s) and/or Lab Manual: None
- J. Course Description: This course is based on EC-Council's Computer Hacking Forensic Investigator course and presents a detailed methodological approach to computer forensics and evidence analysis. This is a comprehensive course covering major forensic investigation scenarios. The course enables students to acquire necessary hands-on experience on various forensic investigation techniques and standard forensic tools necessary to successfully carry out a computer forensic investigation leading to prosecution.
- 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. Define computer forensics	Week 1 tests, labs, midterm and final exam
2. Explain the objectives and benefits of computer forensics	Weeks 1-2 tests, labs, midterm, and final exam
3. Discuss forensic readiness planning in detail	Weeks 2-4 tests, labs, midterm, and final exam
4. Describe cybercrimes and cybercrimes' investigations	Weeks 2-8 tests, labs, midterm, and final exam
5. Explain the key steps and rules in forensic investigation	Weeks 4-8 tests, labs, midterm, and final exam
6. Describe the role of digital evidence in forensic investigation	Weeks 9-12 tests, labs, and final exam
7. Explain the key concepts of Enterprise Theory of Investigation (ETI)	Weeks 12-14 tests, labs, and final exam
8. Discuss various legal issues and reports related to computer forensic investigations	Weeks 14-15 tests, labs, and final exam

- M. Topical Timeline (Subject to Change):

Week 1: Introduction to Computer Forensics
 Week 2: Digital Evidence: Searching and Seizing Computers; First Responder Procedures
 Week 3: Computer Forensics Lab
 Week 4: Hard Disks and File Systems: Windows Forensic
 Week 5: Data Acquisition and Duplication
 Week 6: Recovering Deleted Files and Deleted Partitions
 Week 7: Forensics Investigations Using AccessData FTK & EnCase
 Week 8: Steganography and Image File Forensics
 Week 9: Application Password Crackers
 Week 10: Log Capturing and Event Correlation
 Week 11: Network Forensics, Investigating Logs and Investigating Network Traffic
 Week 12: Investigating Wireless and Web Attacks
 Week 13: Tracking Emails and Investigating Email Crimes
 Week 14: Investigative Reports
 Week 15: Review, Term Project (optional)
 Week 16: Lab Makeup/Final Exam

- N. Course Assignments:

1. Labs
2. Tests
3. Midterm Exam
4. Final Exam
5. Final Project (optional)

- 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](https://sharept.ncstatecollege.edu/committees/1/curriculum/SiteAssets/SitePages/Home/SYLLABUS%20SUPPLEMENT.pdf) located at <https://sharept.ncstatecollege.edu/committees/1/curriculum/SiteAssets/SitePages/Home/SYLLABUS%20SUPPLEMENT.pdf>

The information can also be found Choose an item.