



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Computer Crime And Investigation
Course Number: CFS137

Required Materials

Textbook(s): Digital Forensics, Investigation, and Response, Easttom, Jones and Bartlett Learning, 2022. ISBN 978-1-28-4238631-A

Required Readings: None

Additional Materials:

1. Personal computer running **Windows 10 Professional** (Not Home Edition), a virtual machine running Windows 10 Professional or an external hard drive with a Windows to Go installation running Windows 10 Professional.
2. Additional material furnished by the instructor or available online.

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
Week 1	<ul style="list-style-type: none"> • Course Introduction, • Ch 1: Introduction to Forensics • Digital Forensics Process, Searching • Academic Honesty Prerequisite • Chapter 1 Quiz • Lab: Intro to Digital Forensics
Week 2	<ul style="list-style-type: none"> • Ch 2: Overview of Computer Crime • Write Protection • Chapter 2 Quiz • Lab: Legal Considerations in DFIR
Week 3	<ul style="list-style-type: none"> • Ch 3: Forensic Methods & Labs • Validation • Chapter 3 Quiz • Lab: Digital Forensics Case Investigation
Week 4	<ul style="list-style-type: none"> • Ch 4: Collecting, Seizing & Protecting Evidence • Imaging • Chapter 4 Quiz

Week	Chapter/Topic/Lab
	<ul style="list-style-type: none"> • Lab: Forensic Imaging
Week 5	<ul style="list-style-type: none"> • Ch 6: Recovering Data • File Metadata • Chapter 6 Quiz, Exam I • Lab: Cold System Forensics
Week 6	<ul style="list-style-type: none"> • Ch 14: Memory Forensics • File Carving • Chapter 14 Quiz • Lab: Redline Memory Forensics
Week 7	<ul style="list-style-type: none"> • Ch 8: Windows Forensics • Windows Artifacts • Chapter 8 Quiz • Lab: Windows Forensics
Week 8	<ul style="list-style-type: none"> • Chapter 8 Quiz (Registry) • Lab: Windows Registry Analysis • Chapter 8 Quiz (Registry) • Lab: Windows Registry Analysis
Week 9	<ul style="list-style-type: none"> • Internet Artifacts • Lab: Windows Internet Browser Lab
Week 10	<ul style="list-style-type: none"> • Ch 5: Understanding Techniques for Hiding & Scrambling Data • Chapter 5 Quiz, Exam II • Lab: Obfuscation
Week 11	<ul style="list-style-type: none"> • Ch: 11 Email Forensics • Ohio Cyber Range • Chapter 11 Quiz • Lab: Phishing Analysis • Cyber Range Lab Assignments
Week 12	<ul style="list-style-type: none"> • Ch 12: Mobile Forensics, • Password Cracking • Chapter 12 Quiz • Lab: Password Cracking
Week 13	<ul style="list-style-type: none"> • Ch 10: Mac OS Forensics • Chapter 10 Quiz • Lab: Mac Image Forensics
Week 14	<ul style="list-style-type: none"> • Ch 9: Linux Forensics • The Open-Source Community • Chapter 9 Quiz • Lab: Linux File System Analysis
Week 15	<ul style="list-style-type: none"> • Ch 15: Trends & Future Directions • Ethical & Professional Conduct • Review for Final Practical • Chapter 15 Quiz • Lab: Ethics & Professionalism
Week 16	<ul style="list-style-type: none"> • Final Practical Exam • Final Practical Lab