

Cyber Crime Investigation I

Undergraduate Syllabus IA 325
Course Registration number 17501
Roosevelt Hall Room 16,
TUES: 5:30 pm - 8:00 pm

Instructor Tom Kolpacki
Hours (by appointment)
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9-09-08 thru 12-16-08

TEXT: Cyber Crime Investigations Bridging the Gaps Between Security Professionals, Law Enforcement, and Prosecutors by Anthony Reyes (chapters as assigned).

Investigative Uses of Technology: Devices, Tools, and Techniques; Special Report: U.S. Department of Justice Office of Justice Programs *National Institute of Justice*. (chapter 3).

Investigations Involving the Internet and Computer Networks: U.S. Department of Justice Office of Justice Programs *National Institute of Justice*. (chapters 1,2,3,4, & 7).

Digital Evidence in the Courtroom: A Guide for Law Enforcement and Prosecutors: U.S. Department of Justice Office of Justice Programs *National Institute of Justice*. (chapters 1 & 3).

OBJECTIVES: The purpose of this course is to provide a basic foundation for understanding the nature of cyber crime and methods used to investigate cyber crime. This course will approach cyber crime from a number of perspectives: technological, legal, ethical, and scientific. The goal of this course will be for the student to understand how to conduct an investigation that involves cyberspace. The course will explore the variety of software programs, Internet services, and sources of evidence available, in order to conduct cyber crime investigations. This course will have intensive hands on classroom exercises for students to become familiar with the tools and methods that cyber crime investigators utilize to investigate cyber crime.

- The Internet as an Investigative Resource
- Cyber Crime Software Tools
- Evidence Recognition & Seizure
- Review of Relevant Federal Laws

- Computer Forensics

GRADING: 2 quizzes (as announced), counting 20% toward final grade; midterm exam 30% of grade; class presentation, 10% of grade; final exam 40% of grade.

NOTE: One quiz may be taken late. See instructor for arrangements for taking the late quiz. There will be a 7% penalty for this late quiz.

ATTENDANCE: Is required and attendance record is kept. At least 50% of the test material will not be from the textbook. Students whose grade is borderline and who were absent two or less classes will be given consideration for their final grade.

Term Paper: A 5-7 minute class presentation on Cyber Crime. **The topic must be approved by the instructor.**

NOTE: This course follows the Eastern Michigan University policy on cheating and plagiarism, as reflected in the EMU student handbook.

Grading Scale

90 - 100	A
87 - 89	A-
84 - 86	B+
80 - 83	B
77 - 79	B-
74 - 76	C+
70 - 73	C
67 - 69	C-
64 - 66	D+
60 - 63	D

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IA 325

Week #1

9-09-08 Topic: Course Introduction Cyber Crime
Reading Assignment: Chpt. 1 & 2

Week #2

9-16-08 Topic: The Internet / Overview of TCP/IP
Reading Assignment: Chpt. 8

Week #3

9-23-08 Topic: Website Investigations – WHOIS, DNS
Reading Assignment: Chpt. 8

Week #4

9-30-08 Topic: Reading Email Headers & Usenet Newsgroups
Reading Assignment: Chpt. 8

Week #5

10-07-08 Topic: Legal Aspects of Cyber Crime Investigation
Reading Assignment: Chpt. 6 & Appendix A

Week #6

10-14-08 Topic: Search & Seizure of Digital Evidence & ISP Records
Reading Assignment: Chpt. 7

Week #7

10-21-08 Topic: Internet as an Investigative Resource
Reading Assignment: To Be Determined

Week #8

10-28-08 **Midterm**
Reading Assignment: To Be Determined

Week #9

11-04-08 Topic: Malicious Logic; Virus', Spyware, & Malware
Reading Assignment: Chpt. 5

Week #10

11-11-08 Topic: Encryption
Reading Assignment: Chpt. 5

Week #11

11-18-08 Topic: Overview of Operating Systems, Computer Forensics & Anti-Forensics
Reading Assignment: Chpt. 5 & 9

Week #12

11-25-08 Topic: Network Intrusion Investigation & Hacking
Reading Assignment: Chpt. 6

Week #13

12-02-08 Topic: Suspect Identification, Interviewing & Interrogation
Reading Assignment: To Be Determined

Week #14

12-09-08 Topic: **Class presentations:**
Review for Final

Week #15

12-16-08 **Final Exam**

