

University of Arkansas - Fort Smith

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General Syllabus

CS 4523 Cyber Crimes

Credit Hours: 3

Lecture Hours: 3

Laboratory Hours: 0

Prerequisite(s): CS 2053 Foundations of CyberSecurity

Effective Catalog: 2020-2021

I. Course Information

A. Catalog Description

Introduction to the economic crimes facilitated and propagated via the use of the Internet and other public and private communication networks. Compromising techniques such as fraud, denial of service activities, spoofing, social engineering and e-mail scams such as phishing will be introduced along with foundational network forensics and investigative techniques.

II. Student Learning Outcomes

A. Subject Matter

Upon successful completion of this course, the student will be able to:

1. Explain the different types and facets of cybercrime including the techniques and methodologies in how each activity is perpetrated.
2. Compare and contrast how cybercrimes are executed utilizing public and private communication networks.
3. Evaluate and assess when a cyber-crime has occurred by identifying the type of crime along with compromised technology.
4. Explain the global anti-cybercrime agencies along with their investigative disciplines and means of collaborative methods.
5. Develop and evaluate effective safeguard policies and procedures that will help mitigate cyber- crimes.

B. University Learning Outcomes

This course enhances student abilities in the following area:

Communication Skills (Written and Oral)

Student will be required to effectively write an incident synopsis and present the findings to the class, including the implemented countermeasure.

Ethical Decision Making

The student will identify violations of laws of the cyber domain and the impact it has on an individual and on society.

III. Major Course Topics

- A.** History and examples of computer crime
- B.** "Cracking" ("hacking") and its effects
- C.** Viruses, worms, and Trojan horses
- D.** Identity theft
- E.** Crime prevention strategies
- F.** Cyberstalking
- G.** Monetary Crimes of the Internet