

## **HSEM 418: Cybercrime, Fraud and Law (Fall 2016)**

Credits: 3

Location: TBD based upon availability of classrooms

Prerequisites: HSEM 301 or permission of Instructor

Instructor: Sean McGee

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### **Course Description**

This course provides an introduction to cybercrime. The history of cybercrime in the US and the resulting law and regulatory environment it has resulted in are covered. Techniques and resources for investigating cyber incidents will be presented, as well as the methods used to commit malicious or criminal acts. Active elements of the cyber underworld, including organized crime, terrorists and state sponsored activity, will be discussed. Finally students will become familiar with legal processes they may find themselves a part of, litigation, depositions and expert reporting.

### **Course Objectives:**

Develop an understanding of:

- cybercrime, its history, the legal environment and common perpetrators
- the investigative process
- the legal framework and regimes involved in cybercrime investigations

### **Student Learning Outcomes:**

Students will be able to:

- Describe the evolution to cybercrime and the types of crime currently being committed.
- Outline the various laws as they pertain to cybercrime.
- Explain the various evidence collection techniques including how to collect evidence from electronics, software, and hardware.
- Explain the cycle of cybercrime from the crime being committed to prosecution and jail.
- Recognize the types of criminal and terrorist organizations that utilize cybercrime and techniques and resources to stop them.

### **Course Textbook(s):**

- Computer Crime, Investigation and the Law, (2011), 1<sup>st</sup> edition, Easttom, C., Taylor, J., Course Technology (ISBN 978-1435455320)

### **Additional Reading:**

Additional reading assignments have been selected from articles and Web Sites. Where possible, the course author has obtained permission to include session handouts of the assigned reading.

## **Instructional Method:**

The course format includes lecture, directed reading assignments, class discussion board topics and internet-based assignments via Blackboard. Case Study and current topics in cyber security research will be used to supplement the text material, highlight emerging trends and include developing areas of cyber security.

Reading and online lecture time: 4-5 hours weekly

Recommended preparation: 4-5 hours weekly beyond reading and online lecture time

## **Evaluations:**

1. 10 Discussion Board Posts 40% (400 points)
  - A. Discussion Board Posts are worth 40 points each.
    - i. Initial response to discussion board posts are due Wed. at 11:59p for 20 of 40 points
    - ii. 2 follow-up responses are due Sun. at 11:59p for 10 of 40 points each
    - iii. All post comment positions will be supported by at least 1 citation from the text or other reputable source (not Wikipedia).
  
2. 3 Case Studies 60% (200 points ea.)
  - A. The three case study areas will be:
    - i. Legal environment
    - ii. Investigation & Forensics
    - iii. Expert witness
  - B. For each 2-3 page responses to the presented case will be written
  - C. Each will be original work supported by APA formatted citations from at least 3 sources
  - D. A copy of the grading rubric is attached to the end of this syllabus

\*\*\*For additional information on APA formatting:

<https://owl.english.purdue.edu/owl/resource/560/01/>

## **Grading:**

Discussion Board Posts = 40% (400 points)

Case Study #1 = 20% (200 points)

Case Study #2 = 20% (200 points)

Case Study #3 = 20% (200 points)

Total = 1000 points

A= 90-100%   B= 80-89%   C= 70-79%   D= 60-69%   F= 59 % or less

## **Course Policies:**

Students are expected to watch instructor posted lectures and participate in discussions generated in Blackboard. Students will turn in work via Blackboard and late submission will not be accepted (outside of emergency or mutually agreed upon circumstances). Plagiarism on assignments and cheating on exams will not be tolerated. Work is to be original efforts to address the specific assignment at hand (in other words, don't submit

work from another course). Students caught plagiarizing or cheating will be disciplined according to the appropriate University of Alaska guidelines.

All deadlines are Alaska Time.

\*\*Discussion Board etiquette: When both posting and responding to the discussion board requirements, remember that these are graded activities. Content is to address the requirement at hand and in terms of a response, be respectful and constructive in nature. Be sure to read the discussion board rubric found in the rubric folder for the course.

### **Support Services:**

Students are encouraged to schedule an initial appointment and utilize the UAF Writing Center in 801 Gruening, ph 474-5314, <http://www.uaf.edu/english/writing-center/> for the first written topic review. Further assistance through the writing center is encouraged as needed to assist in the development and refinement of written products. Please contact me as required should you need to contact other subject matter support services relevant to the development of your leadership or classroom projects/topics. Distance students have access to the tutoring as well.

### **Students with Disabilities:**

Students with learning or other disabilities who may need classroom accommodations are encouraged to make an appointment with the Office of Disability Services (Phone # 474-7043). Please inform me of your needs and if I need to meet with the Office of Disability Services to provide the appropriate accommodations and support to assist you in meeting the goals of the course.

**Course Schedule:**

Each week there is text reading assignment, there will be an accompanying on-demand lecture session available.

**Week 1 (Thur - Sun)**

Introductions, Introduction to leadership issues (relevance), Introduce Writing Assessment and ensure appointment is made with UAF Writing Center.

## Readings

- Overview of course objectives and expectations.
- Review of writing standards (APA Format)
- Writing assessment assigned. Judgment and Decision Making Under Stress- article  
(Students--Ensure appointment is made with UAF Writing Center)
- Information Assurance Handbook; Chapter 1

## Assignments

- Discussion Board #1- Introductions
- Pre-test – graded for participation ONLY and used to establish current understanding of cyber attack

**Week 2 (Mon - Sun)**

## Readings

- Computer Crime, Investigation and the Law; Chapters 2, 3 & 4

## Assignments

- Discussion Board #2

**Week 3 (Mon - Sun)**

## Readings

- Recent cybercrime case: Billion Dollar Bank Heist, posted in Blackboard

## Assignments

- None

**Week 4 (Mon - Sun)**

## Readings

- None

## Assignments

- Case study #1 assigned

**Week 5 (Mon - Sun)**

## Readings

- Computer Crime, Investigation and the Law; Chapters 5

## Assignments

- Discussion Board #3

**Week 6 (Mon - Sun)**

## Readings

- Computer Crime, Investigation and the Law; Chapters 17 & 18

## Assignments

- Discussion Board #4

**Week 7 (Mon - Sun)**

## Readings

- Computer Crime, Investigation and the Law; Chapter 6

## Assignments

- Discussion Board #5
- Case Study #1 due

**Week 8 (Mon - Sun)**

## Readings

- Computer Crime, Investigation and the Law; Chapters 7 & 8

## Assignments

- Discussion Board #6
- Case Study # 2 assigned

**Week 9 (Mon - Sun)**

## Readings

- Computer Crime, Investigation and the Law; Chapters 9 & 10

## Assignments

- Discussion Board #7

**Week 10 (Mon - Sun)**

## Readings

- Perpetrators: content in Blackboard

## Assignments

- None

**Week 11 (Mon - Sun)**

## Readings

- None

## Assignments

- Case Study #2 due

**Week 12 (Mon - Sun)**

## Readings

- Computer Crime, Investigation and the Law; Chapters 11 & 12

## Assignments

- Discussion Board #8
- Case Study #3 assigned

**Week 13 (Mon - Sun)**

## Readings

- Computer Crime, Investigation and the Law; Chapter 13

## Assignments

- Discussion Board #9

**Week 14 (Mon - Sun)**

## Readings

- Litigation topic: content in Blackboard

## Assignments

- None

**Week 15 (Mon - Sun)**

Readings

- Computer Crime, Investigation and the Law; Chapters 14, 15, 16

Assignments

- Discussion Board #10

**Week 16 (Mon - Sun)**

Readings

- None

Assignments

- Case Study #3 due

**Week 17 (Mon - Sun) Finals Week**

Assignments

- None

# 418 Case Study Rubric

## **Written Paper**

Students will be required to research and analyze a cyber security incident for the case studies in one of three areas. The first case study will focus on the legal environment, the second on investigation and forensics, and the third on expert witnesses. Students will be required to research one of these topics and how analyze how it fits into cybercrime. Student will then be required to show an event that illustrates the topic. From there, lessons learned need to be outlined.

Additionally, your paper needs to be double spaced, and include a cover page (this does not count as one of the 2-3 pages). It will be worth **200 points** and it will be evaluated using the grading criteria listed below. All papers must be written APA format and all sources need to be cited appropriately. This paper requires at least 2 acceptable sources.

## **Rubric**

<i>Organization</i>	<i>/30</i>
<i>Style</i>	<i>/30</i>
<i>Content</i>	<i>/75</i>
<i>Grammar/spelling</i>	<i>/40</i>
<i>Sources</i>	<i>/25</i>

**Papers turned in after the due date will lose 10% per day up to 100%.**