

# **Syllabus for CCJS496 (Computer Crime and Security)**

## **Faculty Contact Information**

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## **Course Description**

This course will examine those crimes which involve the use of computers as well as those perpetrated against computers. Topics will include the various state and federal laws, investigative measures and techniques, and preventive measures utilized to provide a secure environment for computer hardware and software

## **Course Goals/Objectives**

At the completion of this course, students will be able to:

- identify five common threats to security
- enumerate at least 10 security management considerations
- explain in detail how physical security plays a role in computer security
- explain in detail how communications security plays a role in computer security
- explain in detail what security is and how to manage it
- outline the steps involved in prosecuting a computer crime (in Maryland, at the Federal level, etc.)
- conduct an information security risk analysis
- explain how computer security is a major component of best business practices for an organization or agency

## **Course Materials**

Samuel C. McQuade, III. Understanding and Managing Cybercrime. Pearson, 2006. ISBN: 0-205-43973-X

Kevin Mitnick & William L. Simon. The Art of Deception. Wiley Publishing, 2002. ISBN: 0-76454280-X

## **Course Introduction**

We will explore cybercrime as an evolving crime problem rooted in patterns of human behavior, expanding dependency and complexity of information technology, and the need and strategies for prevention and detection of crimes and abuse involving information technology.

We will be using the UMUC WebTycho classroom to enhance our face-to-face class. Course announcements, instructor notes, assignments and grades will be

posted in our WebTycho classroom. Please ensure that you are able to access WebTycho.

## Grading Criteria

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## Academic Policies and Procedures

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## Project Descriptions

### Research Paper

Each student is required to submit a research paper on a course related topic. Topics must be approved by the instructor. Research papers must be cited in APA style. At a minimum, research papers include the following:

- Cover page
- Table of Contents
- Subject Matter (not less than 10 double-spaced pages) that will contain:
  - Introduction
  - Body of the Paper
  - Conclusions/Summary
- Foot Notes/End Notes
- Bibliography

Research papers are in accordance with the Class and Assignments Schedule. Late papers will receive a **two (2) point deduction** each day late. **Papers not turned in by the day of the final exam will not be accepted.**

The substance of your research paper must meet appropriate standards for a 400-level college course in the following categories:

- Content – the issues and substance, the points you raise, the arguments you present
- Terminology – proper usage of vocabulary for this area of study
- Application – how you apply theories and knowledge to given facts
- Organization/Style – was there a logical, understandable "flow" to the work
- Grammar/Mechanics – citation, punctuation, spelling, proper word usage

***Copying or using the work of another student, falsifying sources, or representing an idea or thought of another as one's own may be grounds for reprimand under UMUC's policy on academic dishonesty.***

## Course Schedule

Week	Module	Readings/Assignment(s)	Due Date
Week 1	<p>Course Overview</p> <p>Understanding Human Behavior</p> <p>High-tech Crime Constructs and Terms</p> <p>Principles for Better Understanding Cybercrime</p>	McQuade Chap 1	1/25/07
Week 2 Session 1	<p>What Are We Protecting?</p> <p>Information Assurance</p> <p>Attack Dimensions</p> <p>Critical Infrastructure Protection</p> <p><b>Oral Quiz #1</b></p>	McQuade Chap 2	1/30/07
Week 2 Session 2	<p>Computer Abusers and Cybercriminals</p> <p>Behavioral and Social Traits</p> <p>Categories of Cyber Abusers, Attackers and Criminals</p> <p><b>Selection of Research Topics</b></p>	McQuade Chap 3	2/1/07
Week 3 Session 1	Social Engineering	Mitnick Chap 1-3	2/6/07
Week 3 Session 2	<p>Behavioral and Social Traits</p> <p>Categorizing Cyber Abusers, Attackers &amp; Criminals</p> <p><b>Oral Quiz #2</b></p> <p><b>Draft Outline of Research Paper</b></p>	McQuade Chap 4	2/8/07
Week 4 Session 1	Movie/Guest Lecturer		2/13/07
Week 4 Session 2	<p>The Theories of Knowledge &amp; Understanding</p> <p>Traits Social Process, Social Structure, Conflict &amp; Integrated and Technological Theories</p>	McQuade Chap 5	2/15/07
Week 5 Session 1	<p>The Human and Financial Costs of Cyber Abuse and Cybercrime</p> <p>How Much Cybercrime is There?</p> <p>Why Research the Nature and Extent of</p>	McQuade Chap 6	2/20/07

	Cybercrime <b>Mid Term Exam</b>		
Week 5 Session 2	How is IT Creating New Opportunities?  Emerging Potential for IT-Enabled Abuse and Cybercrime  Controversial Cybercrime-related Issues	McQuade Chap 7	2/22/07
Week 6 Session 1	The Rational & Reach of Cyber Laws and Regulations  How are Laws and Regulations created and administered?  Key Federal Cyber Crime Laws and Information Security Regulations	McQuade Chap 8	2/27/07
Week 6 Session 2	Collaborative Criminal Justice System Responses to Cybercrime  Legal Issues Governing Investigative Procedures  Crime Scene Processing and Evidence Management  Prosecuting Cybercriminals	McQuade Chap 9	3/1/07
Week 7 Session 1	Personnel and Organizational Security  Advancing the Security Posture of an Organization <b>Research Presentations</b>	McQuade Chap 10	3/6/07
Week 7 Session 2	Movie/guest lecturer <b>Research Presentations</b>		3/8/07
Week 8 Session 1	What Can Government Do to Prevent Cybercrime? Computer Ethics Education and Intolerance of Cybercrime <b>Research Presentations</b>	McQuade Chap 11	3/13/07
Week 8 Session 2	<b>Final Exam</b>		3/15/07