Miami Dade College

Course Description

CJE4668 | Computer Crime| 3.00 credits

Synthesizes knowledge of crime elements, legal issues, investigative techniques, and computer skills used in the prevention and investigation of computer-generated crime.

Course Competencies:

Competency 1: The student will utilize computers in profiling by:

1. Reviewing computing fundamentals and computer related crimes
2. Identifying networking technologies specific to computer crime
3. Identifying computer crimes in the State of Florida, investigative techniques and forensic examination
4. Exploring administrative computing in the police environment

Competency 2: The student will analyze the techniques of forensic interviewing by:

1. Describing the sensitive nature of interviewing victims of computer crime
2. Assessing interview information
3. Defining techniques for gathering information
4. Defining the probative value of evidence

Competency 3: The student will analyze information on the Internet by:

1. Describing and discussing how the Internet can augment the traditional investigative methodology
2. Exploring the history of the Internet and emergence of cyber-crime
3. Exploring various Internet crimes
4. acquiring tools and techniques to make searches more efficient

Competency 4: The student will examine the use of computers in commercial crimes by:

1. Identifying various computer crimes
2. Examining law related to use of computers in the commission of commercial crimes
3. Utilizing appropriate terminology
4. Describing corporate and governmental protection against various computer crimes

Competency 5: The student will examine the basics of encryption by:

1. Comparing and contrasting various encryption terms
2. Recognizing cryptographic algorithms
3. Defining encryption protocols
4. Defining cryptographic techniques and key infrastructure

Competency 6: The student will explore various network exploits and vulnerabilities by:

1. Identifying common vulnerabilities
2. Defining the tools that are used to exploit vulnerabilities
3. Analyzing theoretical and practical issues in malicious programs and scripts
4. Analyzing the nature of computer worms and viruses

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Competency 7: The student will analyze computer forensics of the crime scene by:

1. Examining investigations by first responders
2. Examining digital evidence
3. Assessing and documenting digital evidence
4. Reviewing case studies

Competency 8: The student will examine the process of securing a computer network by:

1. Discussing firewall operation
2. Identifying interception and tracking measures used in Internet communications
3. Recognizing hacker exploits and tools
4. Defining the nature of proxy servers
5. Exploring current trends in emerging technologies

Competency 9: The student will analyze forensic behavioral science by:

1. Identifying violent sexual Internet offenders
2. Recognizing the profiles characteristics of computer criminals
3. Assessing investigative difficulties
4. Comparing the science-based methods used by police

Learning Outcomes:

- Solve problems using critical and creative thinking and scientific reasoning
- Demonstrate knowledge of ethical thinking and its application to issues in society
- Use computer and emerging technologies effectively