

CJ-1010: COMPUTERS IN CRIMINAL JUSTICE

Cuyahoga Community College

Viewing: CJ-1010 : Computers in Criminal Justice

Board of Trustees:

2018-01-25

Academic Term:

Fall 2018

Subject Code

CJ - Criminal Justice

Course Number:

1010

Title:

Computers in Criminal Justice

Catalog Description:

Introduction to uses and applications of computer technology in the criminal justice field. Includes discussions of basic terminology; common applications in database, word processing, and spreadsheet uses; and an introduction to the forensic software. Comprehensive examination of computer crimes and procedures, techniques, and legal constraints which apply.

Credit Hour(s):

2

Lecture Hour(s):

2

Requisites

Prerequisite and Corequisite

None.

Outcomes

Course Outcome(s):

Apply knowledge of concerns and computer-based techniques to investigate various computer-related crimes including computer theft, intrusion, and pornography.

Objective(s):

1. Identify the concerns and techniques used in investigating the theft of computer components.
2. Identify the concerns and techniques used in investigating computer intrusion.
3. Identify the concerns and techniques used in investigating theft of information.
4. Identify the concerns and techniques used in investigating computer pornography.
5. Demonstrate a knowledge of the procedures of searching and seizing computers or components.
6. Identify the legal constraints and concerns unique to computer searches and seizures.
7. Demonstrate knowledge of the laws pertaining to computer crimes.

Course Outcome(s):

Utilize computers and appropriate police information systems and databases to investigate crimes.

Objective(s):

1. Describe the functional parts of a computer.
2. Describe the various data bases in NCIC.
3. Demonstrate a knowledge of the initial queries in LEADS.
4. Demonstrate a knowledge of the initial queries in NCIC.
5. Discuss the internet as an information source.
6. Demonstrate the search and retrieval techniques for information on the internet.
7. Identify the terminology relating to computers.
8. Perform the basic MS-DOS commands on a computer.

9. Describe the basic Windows techniques.
 10. Identify the components of a police information system.
 11. Discuss the advantages and constraints of police information systems.
 12. Identify the applications of computers in a penal setting.
 13. Identify applications of the Law Enforcement Agency Data System (LEADS) system in Ohio.
 14. Identify the applications of the National Crime Information Center (NCIC).
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Methods of Evaluation:

1. Chapter quizzes
2. Midterm exam
3. Final exam
4. Ability to use common software programs

Course Content Outline:

1. A. Computer Terminology and History
 - a. A Brief History of Computers
 - b. Computer Language
 - c. Computer Hardware
 - d. Computer Software
 - e. Operating Systems
2. Traditional Computer Crime: Early Hackers and Theft of Components
 - a. Traditional Problems
 - b. Recognizing and Defining Computer Crime
 - c. Hacking
 - d. Theft of Intellectual Property
3. Contemporary Computer Crime
 - a. Web-based Criminal Activity
 - b. Ancillary Crimes
4. Identity Theft & Identity Fraud
 - a. Typologies of Internet Theft/Fraud
 - b. Prevalence and Victimology
 - c. Physical Methods of Identity Theft
 - d. Virtual or Internet Facilitated Methods
5. Terrorism and Organized Crime
 - a. Terrorism
 - b. Terror Online
 - c. Organized Crime
 - d. Organized Crime and Technology
6. Forensic Terminology and Developing Forensic Science Capabilities
 - a. Traditional Problems in Computer Investigations
 - b. Computer Forensic Science and Disk Structure
 - c. A Sampling of Popular Forensic Software
 - d. Introduction to use of forensic software
7. Searching and Seizing Computer Related Evidence
 - a. Traditional Problems Associated with Finding Digital Evidence
 - b. Pre-search Activities
 - c. On-scene Activities
 - d. Bagging and Tagging
 - e. Interviewing Witnesses
8. Processing of Evidence and Report Preparation
 - a. Aspects of Data Analysis
 - b. Non-Windows Operating Systems
 - c. PDA Forensics
 - d. Report Preparation and Final Documentation

Resources

Britz. *Computer Forensics and Cyber Crime*. 3rd. Pearson, 2013.

Easttom. *System Forensics: Investigation and Response*. 3rd. Jones Bartlett, 2019.

Casey. *Digital Evidence and Computer Crime*. 3rd. Academic Press, 2011.

Schmallegger. *Crimes of the Internet*. 1st. Pearson, 2008.

Maras. *Computer Forensics: Cybercriminals, Laws and Evidence*. 2nd. Jones Bartlett, 2015.

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