

Master Syllabus

CIS 2808 - Introduction to Computer Forensics

Division: Business and Public Services

Department: Computer Information Systems

Credit Hour Total: 3.0

Lecture Hrs: 3.0

Prerequisite(s): CIS 1130 AND CIS 2640 AND CIS 2717

Other Prerequisite(s): AND Other A criminal records check must be completed prior to enrolling in CIS 2808; no exceptions.

Date Revised: October 2013

Course Description:

Computer forensics is the study of obtaining and analyzing evidence/information for use as evidence in civil, criminal or administrative cases.

General Education Outcomes:

- Critical Thinking/Problem Solving

Course Outcomes:

Computer Crime

Conduct a computer based investigation, preserve evidence and present findings to administrative or criminal proceedings.

Assessment Method: Locally developed exams

Performance Criteria: Score 70% or higher on exams

Assessment Method: Simulations

Performance Criteria: Score 70% or higher on a project rubric

Data and Operating Systems

Describe how operating systems write and access data written to various types of media.

Assessment Method: Locally developed exams

Performance Criteria: Score 70% or higher on exams

Assessment Method: Simulations

Performance Criteria: Score 70% or higher on a project rubric

Computer Forensic Tools

Apply industry accepted computer forensic tools.

Assessment Method: Locally developed exams

Performance Criteria: Score 70% or higher on exams

Assessment Method: Simulations

Performance Criteria: Score 70% or higher on a project rubric

Data Recovery

Find and recover data artifacts present, deleted, or hidden.

Assessment Method: Locally developed exams

Performance Criteria: Score 70% or higher on a exams

Assessment Method: Simulations

Performance Criteria: Score 70% or higher on a project rubric

Outline:

Computer Forensics and Investigations as a Professional
Understanding Computer Investigations
The Investigator's Office and Laboratory
Data Acquisition
Working with Windows and DOS systems
Current Computer Forensics Tools
Macintosh and Linux Boot Processes and File Systems
Computer Forensics Analysis and Validation
Recovering Graphics Files
Network Forensics
E-mail Investigations
Cell Phones and Mobile Device Forensics