



BAKER COLLEGE
STUDENT LEARNING OUTCOMES
ITS4250 Computer Forensics and Investigation
3 Semester Hours

Student Learning Outcomes and Enabling Objectives

1. Evaluate digital forensic investigative organizational standards and practices
 - a. Create digital forensic investigative procedures and practices
 - b. Assess digital forensic investigative resources and roles
 - c. Assess digital forensic investigative legal requirements
 - d. Identify professional conduct
 - e. Prepare for investigating a forensic case
 - f. Differentiate digital forensic crimes and investigative procedures

2. Evaluate various digital forensic investigation tools and resources
 - a. Identify digital investigative tools based on digital crimes
 - b. Discuss resources required for investigating various types of digital crimes
 - c. Discuss roles required for investigating various types of digital crimes
 - d. Prepare a business case for developing a digital forensic lab
 - e. Analyze forensic tools to build a digital forensic lab
 - f. Determine digital forensic lab certification requirements
 - g. Develop a physical layout of a digital forensic lab
 - h. Organize forensic workstations and software
 - i. Explain how forensic hardware and software tools integrate
 - j. Identify the need for computer forensic tools
 - k. Test computer forensic tools

3. Assess digital forensic evidence
 - a. Determine when and how to use digital forensic tools
 - b. Collect evidence in private-sector digital crimes
 - c. Manage digital evidence
 - i. Identify digital evidence
 - ii. Secure digital evidence
 - iii. Catalog digital evidence
 - iv. Store digital evidence
 - d. Determine the best data acquisition method for an incident scene
 - e. Use multiple data forensic and acquisition tools
 - f. Identify data recovery contingencies and strategies
 - g. Facilitate computer forensics analysis addressing data-hiding techniques
 - h. Investigate e-mail crimes and violations
 - i. Explain specialized e-mail computer forensics tools

- j. Manage file systems and structures of multiple operating systems
 - k. Manage the examine Startup and boot tasks of multiple operating systems
 - l. Explain image files
 - m. Explain data compression
 - n. Describe Windows Registry controls
4. Prepare criminal court proceedings and testimony
- a. Discuss role of expert testimony
 - b. Explain testimony guidelines and expectations
 - c. Describe criminal court proceedings
 - d. Discuss evidence documentation and preparation
 - e. Explain expert qualifications for testifying
5. Describe report preparation and documentation requirements of forensic findings
- a. Explain the importance of forensic findings reports
 - b. Determine guidelines for writing forensic findings reports
 - c. Create report findings with forensic software tools

These SLOs are not approved for experiential credit.

Effective: Fall 2017