



BAKER COLLEGE
STUDENT LEARNING OUTCOMES

ITS 3250 Securing Systems
3 Semester Hours

Student Learning Outcomes & Enabling Objectives

1. Apply hardening techniques to Servers
 - a. Discuss the role of security in a server environment
 - b. Restrict settings through Group Policy Objects (GPOs)
 - c. Implement encryption in a server environment
 - d. Examine directory services in Windows server 2012

2. Apply hardening techniques to workstation computers
 - a. Discuss the role of information security on a workstation
 - b. Apply firewall rules on workstation computers
 - c. Apply antivirus protection to workstation computers
 - d. Create a file that uses multi-factor authentication for access
 - e. Implement whole disk encryption on a workstation computer

3. Implement secure communications across a computing environment
 - a. Discuss the role of encryption within a computing environment
 - b. Examine virtual private networks
 - c. Implement encryption in a server environment
 - d. Apply software patches to a server
 - e. Apply patches to a workstation computer

4. Build a standard operating procedure (SOP)
 - a. Discuss the necessity for documenting procedures
 - b. Create a procedure guide for computer security
 - c. Examine Defense Information Systems Agency Security Technical Implementation Guides
 - d. Discuss SOP implementation

5. Manage user and administrator account privilege levels
 - a. Distinguish between user and administrative accounts
 - b. Control user access on a workstation computer
 - c. Control administrative access on a server
 - d. Limit changes to a workstation computer through user access control
 - e. Limit changes to a server through roles

Big Ideas and Essential Questions

Big Ideas

- Implement workstation hardening techniques using tools available on student computers
- Recognize that existing server hardening techniques also exist on workstations

Essential Questions

1. How is a server protected from internal and external threats
2. How is a workstation protected from internal and external threat

These SLOs are approved for experiential credit.

Effective: Fall 2017