University of Arkansas - Fort Smith
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General Syllabus

CS 4213 Identity Management

Credit Hours: 3   Lecture Hours: 3   Laboratory Hours: 0

Prerequisite(s): CS 2053 Foundations of CyberSecurity and CS 1044 Foundations of Networking

Effective Catalog: 2020-2021

I.   Course Information

A. Catalog Description

Introduces the skills and knowledge to securely analyze, design, install and configure identity management systems and their applications in a network environment.

B. Additional Course Information

Students will work hands-on with an identity management software to protect intellectual property via authentication and authorization mechanisms. They will learn to design for administration issues as well as implement desktop policies and control mechanisms.

II.   Student Learning Outcomes

A. Subject Matter

Upon successful completion of this course, the student will be able to:

1. Explain, design and plan issues for secure identity management.
2. Install, configure, and troubleshoot a directory service.
3. Evaluate and assess options available to optimize performance and network resource usage of the directory service.
4. Develop and implement desktop control policies via a distributed service.

B. University Learning Outcomes

This course enhances student abilities in the following area:

Analytical Skills
Critical Thinking Skills
Students will identify the appropriate functionality to address identity needs (problem identification), design, and generate a solution consisting of activities and services required to fulfill the requirements.

III. **Major Course Topics**

    A. Logical and physical design
    B. Installation of a directory service
    C. Accommodating network constraints into directory services
    D. Accounts and account groups
    E. Integrating groups and accounts with file/folder permissions for optimizing security
    F. Using directory services for desktop control
    G. How directory services design informs desktop control potential
    H. Implementing desktop control settings using directory services
    I. Using directory service for software installation and maintenance
    J. How directory services design informs "push" software installation potential
    K. Directory services and certificate services
    L. Maintenance, Disaster Recovery and Business Continuity