

Inver Hills Community College

ITC 2450: Networking with Windows Server

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 2

Lab Hours/Week: 2

OJT Hours/Week: *.*

Prerequisites:

ITC 2430 - Installation, Storage, and Compute with Windows

Corequisites: None

MnTC Goals: None

Provide students with advanced skills and knowledge needed to implement and administer network services in a Windows Server enterprise environment. Topics include the domain name system, DHCP, IP address management, distributed file system, and high performance networking.

B. COURSE EFFECTIVE DATES: 08/26/2013 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Configure and Manage High Availability (17%)
2. Configure File and Storage Solutions (16%)
3. Implement Business Continuity and Disaster Recovery (17%)
4. Configure Network Services (17%)
5. Configure the Active Directory Infrastructure (18%)
6. Configure Identity and Access Solutions (15%)

D. LEARNING OUTCOMES (General)

1. Configure Network Load Balancing (NLB)
Configure failover clustering
Manage failover clustering roles
Manage Virtual Machine (VM) movement
Configure advanced file services
Implement Dynamic Access Control (DAC)
Configure and optimize storage
Configure and manage backups
Recover servers
Configure site-level fault tolerance
Implement an advanced Dynamic Host Configuration Protocol (DHCP) solution
Implement an advanced DNS solution
Deploy and manage IPAM
2. Configure a forest or a domain
Configure trusts
Configure sites
Manage Active Directory and SYSVOL replication
Implement Active Directory Federation Services 21 (AD FSv21)
Install and configure Active Directory Certificate Services (AD CS)
Manage certificates
3. Install and configure Active Directory Rights Management Services (AD RMS)

Students will practice business soft skills including written, active listening, and oral presentation.
Students will document evidence of business skill practice in an electronic portfolio.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted