BAKER COLLEGE
STUDENT LEARNING OUTCOMES

MNP 2150 Microsoft Server
3 Semester Hours

Student Learning Outcomes & Enabling Objectives

1. Install and configure to Windows Server 2012 R2
   a. Install and Configure Windows Server 2012 R2 including selection of installation options, upgrading and migrating existing systems.
   b. Configure Windows Server 2012 including common post installation tasks, configuring roles, features and services, using Server Manager and delegating Server Administration.
   c. Enable and configure local storage in Windows Server 2012 including planning for server storage, understanding and working with disks.

2. Install and configure Windows Server 2012 R2 services.
   a. Enable and configure File and Share Access including designing a file sharing strategy, creating folder shares, assigning permissions, configuring Volume Shadow Copies and NTFS Quotas.
   b. Configuring Print and Document Services including deploying a print server, and utilizing the Print and Document Services Role.
   c. Configure the server for Remote Management including the use of Server Manager for remote management, utilizing Remote Server Administration Tools, using PowerShell Web Access and working with Remote Servers.

3. Design and configure Hyper-V services.
   a. Creating and Configuring Virtual Machine Settings including understanding the virtualization of servers, installing Hyper-V, using Hyper-V Manager and the configuration of Resource Metering.
   b. Creating and Configuring Virtual Machine Storage including Working with Virtual Disks and connecting to a SANS.
   c. Designing, creating and configuring Virtual Networks including the design of Virtual Networks.

4. Configure networking services.
    a. Configure IPv4 and IPv6 addressing, including: configure IP options, subnetting, supernetting, alternative configuration and planning an IP transition.
    b. Configure Dynamic Host Configuration Protocol (DHCP), including understanding DHCP and the options, designing a DHCP Infrastructure, deploying a DHCP server and deploying a DHCP relay agent.
    c. Configuring and Deploying DNS Services including gaining an understanding of a DNS architecture, designing a DNS deployment, creating Internet domains, creating Internal domains and deploying a DNS server.

5. Design, configure and manage Active Directory domain services.
    a. Configuring and Installing Domain controllers including gaining an understanding of Active Directory and deploying Active Directory Domain Services.
    b. Creating and Managing Active Directory Users and Computers including creating the user objects, creating the computer objects and managing Active Directory objects.
    c. Creating and Managing Active Directory Groups and Organizational Units including designing an Internal Domain Structure, working with Organizational Units and working with groups.
    d. Designing and Creating Group Policy Objects including gaining an understanding of Group Policy, using the Group Policy Management Console and creating multiple Local GPO's.

6. Design and configure security controls.
    a. Designing and Configuring Security Policies including configuring Security Policies using Group Policy, Configuring local users and groups and configuring User Account Control.
    b. Designing and Configuring Application Restricted Policies including installing Software with Group Policy, configuring Software Restriction Policies and using AppLocker.
    c. Configuring Windows Firewall including building a firewall, using the Windows Firewall Control Panel and using the Windows Firewall with Advanced Security Controls.

These SLOs are not approved for experiential credit.

Effective: Fall 2017