COLLIN COLLEGE

COURSE SYLLABUS

Course Information

Course Number: ITMT 2372

Course Title: Configuring Advanced Windows Server 2012 Services

Course Description: A course in configuring advanced Windows Server 2012 services including configuration and management of high availability, configuration of file and storage solutions, implementation of business continuity and disaster recovery, configuration of network services, configuration of the Active Directory infrastructure, and configuration of Identity and Access Solutions. (MS 70-412)

Course Credit Hours: 3
Lecture Hours: 2
Lab Hours: 3

Prerequisite: ITMT 2370

Student Learning Outcomes: Upon completion of this course the student will be able to:

1. Configure advanced features for Dynamic Host Configuration Protocol (DHCP), Domain Name System (DNS), and configure IP Address Management (IPAM) with Windows Server 2012 (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
2. Configure and manage iSCSI, BranchCache and FSRM (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
3. Configure DAC to manage and audit access to shared files (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
4. Plan and implement an AD DS deployment that includes multiple domains and forests (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
5. Plan and implement an AD DS deployment that includes locations (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
6. Implement and configure an Active Directory Certificate Services (AD CS) deployment, implement an AD RMS deployment and implement an AD FS deployment (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
7. Provide high availability and load balancing for web-based applications by implementing Network Load Balancing (NLB) (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
8. Implement and validate high availability and load balancing for web-based applications by implementing NLB (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
9. Provide high availability for network services and applications by implementing failover clustering (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
10. Implement a failover cluster, and configure and validate a highly available network service (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
11. Deploy and manage Hyper-V virtual machines in a failover cluster (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
12. Implement a backup and disaster recovery solution based on business and technical requirements (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)

Secretary's Commission on the Acquisition of Necessary Skills (SCANS) - SCANS skills are a group of foundational skills and workplace competencies that the Secretary's Commission on the Acquisition of Necessary Skills established as vitally important for workplace success in the 21st century. In Collin's workforce programs, the SCANS skills are developed and reinforced throughout the curriculum to provide students with an opportunity to hone these skills/competencies in the context of their education. Over the course of an entire degree program, the successful student is expected to demonstrate all of the SCANS skills and competencies as part of their education. The SCANS Foundation Skills and Workplace Competencies are described at:
http://www.collin.edu/academics/programs/Workforce_SCANS_Skills_Syllabi_Code_Key.pdf

Withdrawal Policy: See the current *Collin Registration Guide* for last day to withdraw.

Collin College Academic Policies: See the current *Collin Student Handbook.*

Americans with Disabilities Act Statement: Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current *Collin Student Handbook* for additional information.