COLLIN COLLEGE

COURSE SYLLABUS

Course Information

Course Number: ITMT 2374

Course Title: Implementing an Advanced Server Infrastructure

Course Description: A course in implementing an Advanced Server Infrastructure including management and maintenance of a server infrastructure, planning and implementation of a highly available enterprise infrastructure, planning and implementation of a server virtualization infrastructure, and design and implementation of identity and access solutions. (MS 70-414)

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. Describe an enterprise data center (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
2. Plan and implement a server virtualization strategy using System Center 2012, plan and implement the network and storage infrastructure required to deploy a virtualized server infrastructure and plan and deploy virtual machines on Windows Hyper-V (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
3. Plan and implement a virtualization administration solution by using System Center 2012 (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
4. Plan and implement a server monitoring strategy using the Windows Server 2012 tools and using Microsoft System Center 2012 - Operations Manager (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
5. Plan and implement an application and a file services infrastructure that is highly available (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
6. Plan and implement a highly available server infrastructure by using the failover clustering features in Windows Server 2012 (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
7. Plan and implement a business continuity strategy in a Windows Server 2012 environment (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
8. Plan and implement a PKI deployment, and plan and implement a certificate management solution (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
9. Plan and implement an AD FS server deployment and claims aware application access (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
10. Plan and implement Dynamic Access Control, Workplace Join and Work Folders (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
11. Plan and implement an AD RMS deployment, plan and manage AD RMS templates and access, and plan and implement external access to AD RMS services (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:
7http://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.