COLLIN COLLEGE

COURSE SYLLABUS

Course Information

Course Number: ITMT 2373

Course Title: Designing and Implementing a Server Infrastructure

Course Description: A course in designing and implementing a Server Infrastructure including planning and deployment of a server infrastructure, design and implementation of network infrastructure services, design and implementation of network access services, design and implementation of an Active Directory infrastructure (logical), and design and implementation of an Active Directory infrastructure (physical). (MS 70-413)

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. Plan server upgrade and migration, plan and implement a server deployment strategy and plan and deploy servers by using System Center 2012 R2 Virtual Machine Manager (VMM) (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
2. Design and maintain an IP configuration and address management solution (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
3. Design and implement name resolution, an AD DS forest and domain infrastructure, an AD DS organizational unit (OU) infrastructure (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
4. Design and implement a Group Policy Object (GPO) strategy (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
5. Design and implement an AD DS physical topology (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
6. Plan and implement storage and file services (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
7. Design and implement network protection (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
8. Design and implement remote access 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.