COLLIN COLLEGE

COURSE SYLLABUS

Course Information

Course Number: ITCC 2375

Course Title: CCNP Switch - Implementing IP Switching

Course Description: How to implement, monitor, and maintain switching in converged enterprise campus networks. How to plan, configure, and verity the implementation of complex enterprise switching solutions. How to secure integration of VLANs into campus networks. Lab required.

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

Prerequisite: ITCC 2372 or CCNA Certification and consent of the Program Director

Student Learning Outcomes: Upon successful completion of this course, students will be able to do the following:

1. Implement, monitor, and maintain switching in an enterprise campus network. (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
2. Implement appropriate spanning tree protocols in campus networks. (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
3. Implement VLANs in campus networks. (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
4. Configure and optimize high availability and redundancy on switches. (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
5. Describe and implement LAN security features and Chassis Virtualization and Aggregation Technologies. (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
6. Plan and prepare for advanced services in a campus infrastructure. (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.