COLLIN COLLEGE

COURSE SYLLABUS

Course Information

Course Number: ITCC 2370

Course Title: Cisco CCNA Security

Course Description: The Cisco CCNA Security curriculum is taken in preparation for the Implementing Cisco IOS Network Security (IINS) Certification Exam (640-453) leading to the Cisco CCNA Security Certification. The course develops knowledge and skills in the network security area using the available Cisco tools and configurations. Through in-class lecture and lab sections, the following expertise is developed in the following areas: Protocol Sniffers/Analyzers, TCP/IP and common desktop utilities, Cisco IOS software, Cisco VPN clients, and Packet Tracer (PT).

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

Prerequisites: ITCC 1374 or CCENT (ICND1) Certification ~~ITCC 2372 or CCNA Certification~~ and consent of Program Director

Student Learning Outcomes: Upon course completion the students will be able to perform the following tasks:

1. Describe the security threats facing modern network infrastructures, secure Cisco routers. (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16)
2. Implement AAA on Cisco routers using local router databases and external servers. (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16)
3. Mitigate threats to Cisco routers and networks using ACL's, implement secure network management and reporting, mitigate common Layer 2 attacks. (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
4. Implement the Cisco IOS Firewall feature set. (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
5. Implement the Cisco IOS IPS feature set. (SCANS: F1,F3-5,F8-12,F14,F16) (SCANS: C1,C10-16,C18-20)
6. Implement site-to-site IPSec VPN's. (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.