**COLLIN COLLEGE**

**COURSE SYLLABUS**

Course Information

**Course Number**: ITSY 2301

**Course Title:** Firewalls and Network Security

**Course Description:** Identify elements of firewall design, types of security threats and responses to security attacks. Use Best Practices to design, implement, and monitor a network security plan. Examine security incident postmortem reporting and ongoing network security activities. Lab required.

**Course Credit Hours:** 3

Lecture Hours: 2

Lab Hours : 2

**Prerequisite:** ITSY 2300 or consent of the Associate Dean.

**Student Learning Outcomes:**

**State-mandated Outcomes:** Upon successful completion of this course, students will:

1. Demonstrate system security skills through firewall implementation and testing. (SCANS: (F1, F2,F4,F6,F12, F15,C3,C11,C12,C14,C15,C16,C17,C18,C19)
2. Use system tools, practices, and relevant technologies to implement a security plan. (SCANS: F1,F2,F4,F7, F12,C3,C11,C12,C14,C15,C16,C17,C18,C19)
3. Evaluate practices, tools, and technologies to identify security breaches, sources of attacks, and protect mission critical systems. (SCANS: F1,F2,F4,F6,F7,F8,C11,C14,C15.C16.C18.C19)
4. Establish an appropriate level of security based on an analysis of security logs. (SCANS: F1.F2.F4,F6,F8,F16, C11,C12,C14,C15,C16,C17,C18,C19)
5. Use relevant tools to secure a network, respond to and follow up on various types of attacks. (SCANS: F1,F2,F4, F6,F7,F12,F16, C11,C12,C14,C15,C17,C18,C19)

**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.

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