

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: ITN 263

Credits: 4

Course Title: Internet/Intranet Firewalls and e-Commerce Security

Course Description

Explores indepth firewall, Web security, and e-Commerce security. Covers firewall concepts, types, topology, and the firewall's relationship to the TCP/IP protocol. Discusses client/server architecture, the Web server, HTML, and HTTP in relation to Web Security, and digital certification, D.509, and public key infrastructure (PKI). Prerequisite: ITN 262 or school approval. Lecture 4 hours per week.

General Course Purpose

This course examines web security, e-commerce security, and the implementation of firewalls.

Course Prerequisites/Corequisites

ITN 262 or school approval

Course Objectives

Upon completing the course, the student will be able to:

- a. explain risk analysis.
- b. explain web security.
- c. explain e-commerce security.
- d. explain Virtual Private Networks (VPN).
- e. explain firewall topology.
- f. explain HTML and HTTP in relation to web security.

Major Topics to be Included

- a. Risk Analysis
- b. Major TCP/IP Protocols
- c. Network security principles
- d. Implementation and configuration of Firewalls
- e. Encryption principles
- f. E-commerce security
- g. Web Security

Effective Date of Course Content Summary: 9/25/2008