

**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: Gives an in-depth exploration of firewall, Web security, and e-commerce security. Explores firewall concepts, types, topology and the firewall's relationship to the TCP/IP protocol. Includes 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 260 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 and Co-requisites:

Prerequisite: ITN 260 or school approval

Student Learning Outcomes:

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; and
- 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

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