

**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

- Explain risk analysis;
- Explain Web security;
- Explain e-commerce security;
- Explain Virtual Private Networks (VPN);
- Explain firewall topology; and
- Explain HTML and HTTP in relation to web security.

**Major Topics to Be Included:**

- Risk analysis
- Major TCP/IP protocols
- Network security principles
- Implementation and configuration of firewalls
- Encryption principles
- e-Commerce security
- Web Security

**Effective Date/Updated: January 20, 2022**