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

Effective Date of Course Content Summary: October 18, 2017