J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: ITN 260   **Credits:** 3

Course Title: Network Security Basics

Course Description: Provides instruction in the basics of network security in depth. Includes security objectives, security architecture, security models and security layers; risk management, network security policy, and security training. Includes the five security keys, confidentiality, integrity, availability, accountability, and auditability. Lecture 3 hours per week.

General Course Purpose: This course provides an introduction to Network Security.

Course Prerequisites and Co-requisites:
None

Student Learning Outcomes:
Upon completing the course, the student will be able to
a. Recognize computer, network, and information security;
b. Explain why network security is important;
c. Explain network security prevention, detection, and response;
d. Define and explain the concept of network confidentiality;
e. Define and explain the concept of information integrity;
f.   Define and explain the concept of network availability;
g. Define and explain the concept of network auditability;
h. Define and explain the concept of non-repudiation;
i.   Recognize management's role in the development, implementation, and maintenance of network security;
j.   Recognize the value of education, training, and awareness programs to the organization; and
k. Explain security architecture, its principles, components, and employment.

Major Topics to Be Included:
a. Network security basics, security architecture, security models, and the five keys to security
b. Network security risk management
c. Network security policy
d. Network security organization

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