

J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: ITN 260

Credits: 4

Course Title: Network Security Basics

Course Description: Provides instruction in the basics of network security in depth. Course content includes security objective, security architecture, security models and security layers. Course content also includes risk management, network security policy, and security training. Course content includes the give security keys, confidentiality, integrity, availability, accountability, and audit ability. Lecture 4 hours per week.

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

Course Prerequisites and Co-requisites:

Prerequisite: ITE 115 or equivalent

Course Objectives:

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

- a. Understand network security basics, security architecture, security models, and the five keys to security;
- b. Understand network security risk management;
- c. Understand network security policy; and
- d. Understand network security organization.

Major Topics to Be Included:

- a. Understand 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 audit ability
- h. Define and explain the concept of non-repudiation
- i. Understand management's role in the development, implementation, and maintenance of network security
- j. Understand the value of education, training, and awareness programs to the organization
- k. Understand security architecture, it's principles, components, and employment

Effective Date of Course Content Summary: August 17, 2016