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. 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. Prerequisite: ITE 115 or equivalent. 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

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 audit ability;
  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

Effective Date of Course Content Summary: August 17, 2016