Course Prefix and Number:  ITN 154  Credits:  3

Course Title:  Networking Fundamentals-Cisco

Course Description

Introduces networking using the OSI reference model. Covers data encapsulation, TCP/IP suite, routing, IP addressing, and structured cabling design and implementation. Lecture 3 hours per week.

General Course Purpose

This course provides an introduction to Cisco networking fundamentals.

Course Prerequisites/Corequisites

none

Course Objectives

Upon completing the course, the student will be able to:
   a. design and configure a network.
   b. administer and configure routers.
   c. administer and configure switches and host devices.
   d. subnet a network.
   e. troubleshoot network connectivity.
   f. understand WAN connectivity.

Major Topics to be Included

   a. OSI Model
   b. Networking addressing
   c. Hardware Addresses
   d. Address Resolution Protocol (ARP)
   e. Sub-netting
   f. Topology
   g. Planning and cabling networks
   h. Network Management

Effective Date of Course Content Summary:  2/18/2009