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 and Co-requisites:
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; and
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:  February 18, 2009