

ITNET-131: Introduction to Networks (CISCO 1)

Course Description:

This is the first of four classes designed to provide students with classroom and laboratory experience in current and emerging networking technology that will empower them to enter employment and/or further education and training in the computer networking field. Instruction includes networking, networking terminology and protocols, network standards, LANS, WANS, OSI models, cabling, IP addressing, and network standards. Students who complete all four courses will be prepared to take the Cisco Certified Networking Associate (CCNA) exam as well as the Comp TIA Network+ exam at MATC's VUE test center.

Total Credits: 3.00

Course Competencies

- 1. Describe the purpose and layers of the OSI and TCP/IP models**
- 2. Describe the devices used to support communications in data networks**
- 3. Describe half-duplex and full-duplex**
- 4. Identify segmentation protocol data units (PDUs) in the OSI model**
- 5. Log into a router in both user and privileged modes**
- 6. Configure a router using command-line interface (CLI) commands**
- 7. Configure an IPv4 network address and mask**
- 8. Identify common network utilities to verify network operations**