
SECTION HEADING

CST 1190: Introduction to Networking

Description

Introduction to Networks (ITN) covers the architecture, structure, functions and components of the Internet and other computer networks. Students achieve a basic understanding of how networks operate and how to build simple local area networks (LAN), perform basic configurations for routers and switches, and implement Internet Protocol (IP). This course is the 1st course of 3 courses to prepare for CISCO Certified Network Associate (CCNA) certification.

Credits

4

Topics to be Covered

1. The CCNA curriculum helps students develop workforce readiness skills and builds a foundation for success in networking-related careers.

Learning Outcomes

1. Configure switches and end devices to provide access to local and remote network resources.
2. Explain how physical and data link layer protocols support the operation of Ethernet in a switched network.
3. Configure routers to enable end-to-end connectivity between remote devices.
4. Create IPv4 and IPv6 addressing schemes and verify network connectivity between devices.
5. Configure a small network with security best practices.
6. Explain how the upper layers of the OSI model support network applications.
7. Troubleshoot connectivity in a small network.

Credit Details

Lecture: 3

Lab: 1

OJT: 0