

CFISD Internetworking Technologies I

Scope and Sequence

Course Description:

Internetworking Technologies I prepares students to install, operate and troubleshoot a home or small business enterprise branch network. The content of this course is in alignment with Cisco’s Certified Entry Networking Technician (CCENT) exam, as this is an industry recognized certification in this field. The goal of providing this training (and potential certification) is to assist students in becoming more marketable and desirable in the workplace. (1 credit)

- Grades 11 – 12
- Recommended prerequisite: any technology course
- Lab supplies or fee may be required.
- Assessment for verification of industry-recognized training is available for a fee.

TEKS

Cluster: Information Technology

Endorsement: Business & Industry

- Meets advanced course requirement (Y/N): Yes
- Meets foundation requirement for math, science, fine arts, English, LOTE (Y/N-area): N

Industry Certification/Credentials: Cisco CCENT

Instructional Units	Pacing
Chapter 1 – Exploring the Network Chapter 2: Configuring a Network Operating System Chapter 3: Network Protocols and Communications Chapter 4: Network Access Chapter 5: Network Protocols and Communications Chapter 6: Network Layer Chapter 7: Transport Layer Chapter 8: IP Addressing Chapter 9: Subnetting IP Networks Chapter 10: Network Protocols and Communications Chapter 11: Network Protocols and Communications	Fall Semester
Chapter 1: Introduction to Switched Networks Chapter 2: Basic Switching Concepts and Configuration Chapter 3: VLANs Chapter 4: Routing Concepts Chapter 5: Inter-VLAN Routing Chapter 6: Static Routing Chapter 7: Routing Dynamically Chapter 8: Single-Area OSPF Chapter 9: Access Control Lists Chapter 10: DHCP Chapter 11: Network Address Translation for IPv4	Spring Semester

Primary Instructional Materials: Cisco Networking Materials