

## 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 the Comptia Network + or Cisco CCNA certifications earned in Internetworking Technologies II. The goal of providing this training (and potential certification) is to assist students in becoming more marketable and desirable in the workplace.

- Grades 10 – 12
- Recommended prerequisite: Networking
- ITS Network certification satisfy the requirement to earn a performance acknowledgement.
- Assessment for verification of industry-recognized training is available for a fee.

[TEKS](#)

Programs of Study: Networking

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: IT Specialist Network

Instructional Units	Pacing
Communications in a Connected World Explore Networks with Packet Tracer Build a Simple Network Communication Principles Network Design and the Access Layer Routing Between Networks The Internet Protocol Dynamic Addressing with DHCP IPv4 and IPv6 Address Management	Fall Semester
Transport Layer Services Application Layer Services Build a Home Network Connect to the Internet Security Considerations Configure Network and Device Security Cisco Switches and Routers The Cisco IOS Command Line Build a Small Cisco Network Troubleshoot Common Network Problems	Spring Semester

Primary Instructional Materials: Cisco Networking Materials