

## CFISD Information Technologies II

### Scope and Sequence

**Course Description:**

Internetworking Technologies II prepares students to install, operate and troubleshoot a medium-sized business enterprise branch network. Completing both Internetworking Technologies, I and II prepares students to pass the CompTIA Network + and CCNA exams, as both are industry-recognized certifications in this field. The goal for providing this training (and potential certification) is to assist students in becoming more marketable and desirable in the workplace.

- Grade 11-12
- Required prerequisite: Internetworking Technologies I
- Satisfies advanced course requirement for Business & Industry endorsement.
- CompTIA and Cisco certifications satisfy the requirement to earn a performance acknowledgement.
- Assessment for verification of industry-recognized training is available for a fee.

[TEKS](#)

Program of Study: Networking Services

Cluster: Information Technology

Endorsement: Business & Industry

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

Industry Certification/Credentials: CompTIA Network + / Cisco CCNA

Instructional Units	Pacing
1 Comparing OSI Model Network Functions 2 Deploying Ethernet Cabling 3 Deploying Ethernet Switching 4 Troubleshooting Ethernet Networks 5 Explaining IPv4 Addressing 6 Supporting IPv4 and IPv6 Networks 7 Configuring and Troubleshooting Routers 8 Explaining Network Topologies and Types 9 Explaining Transport Layer Protocols 10 Explaining Network Services	Fall Semester
11 Explaining Network Applications 12 Ensuring Network Availability 13 Explaining Common Security Concepts 14 Supporting and Troubleshooting Secure Networks 15 Deploying and Troubleshooting Wireless Networks 16 Comparing WAN Links and Remote Access Methods 17 Explaining Organizational and Physical Security Concepts 18 Explaining Disaster Recovery and High Availability Concepts	Spring Semester

Primary Instructional Materials: Cisco / CompTIA Materials