

Networking Syllabus

Course Description/Goals:

This course introduces the tools and concepts of networking and encourages students to create solutions that allow people to share computing resources while protecting privacy.

Course TEKS/Objectives: Students will develop knowledge and skills related to data networking technologies and practices to apply them in personal or career development using CertMaster Learn Curriculum. Course studies will include professional skills such as communication and problem solving as well as working with a customer. Students will be able to analyze telecommunications and data network services to address industry needs. Course work will include creating a network design plan with appropriate documentation and a preventative maintenance plan. Coursework will include a Competency Assessment. This is a performance-based assessment that uses simulated labs as items to have students demonstrate skills in key tasks associated with the course material.

<https://tea.texas.gov/sites/default/files/ch130k.pdf>

Course Outline:

Semester 1	Semester 2
Networking Basics Cabling and Hardware Devices Network Addressing and Services Ethernet Firewalls and Intrusion Detection Switching and Routing Specialized Networks Wireless Networking	Wide Area Networks Network Operations and Management Network Security Hardening and Update Management Network Optimization Certification Prep