

COMPUTER TECH SKILL LEC/ LAB (CTSC)

CTSC 1134 Network+**Credit Hours:** 3**Lab Fee:** Yes

This course is designed to teach the skills and knowledge measured by the CompTIA Network+ certification exam. The course provides networking information and skills in the area of media and topologies, protocols, and standards, network implementation and network support.

CTSC 1651 Cisco Router Technology**Credit Hours:** 3**Prerequisites:** CTSC 1134 with a grade of "C" or higher

This course covers the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts. Students learn how to configure and troubleshoot routers and switches for advanced functionality using security best practices and resolve common issues with protocols in both IPv4 and IPv6 networks.

CTSC 2120 Network Security Fundamentals**Credit Hours:** 3**Prerequisites:** CTSC 1134 with a grade of 'C' or higher**Lab Fee:** Yes

This course is designed to provide a student with a broad-based knowledge of network security, and to prepare the student for further study in specialized fields. Students assess the security risks to an organization using the tools and techniques necessary to safeguard an organization's stored data. This course helps to prepare the student to take the CompTIA Security+ certification exam.

CTSC 2314 Network Defense and Countermeasures- Hardening the Infrastructure**Credit Hours:** 3**Prerequisites:** CETC 2890 with a grade of "C" or higher**Corequisites:** CET 2894**Lab Fee:** Yes

This course provides a comprehensive analysis of a wide breadth of network security technologies that could be deployed to harden a network infrastructure against various attacks. The course covers the installation, and security configurations of various network devices including switches, access points, routers, proxy servers, firewalls, intrusion detection systems, intrusion prevention systems and other security and network appliances at different layers of the Open Systems Interconnection (OSI) model.

CTSC 2652 Cisco Advanced Router Technology**Credit Hours:** 3**Prerequisites:** CTSC 1651 with a grade of "C" or higher**Lab Fee:** Yes

This course is designed to prepare a student to apply and understand the advanced principles and applications of networking hardware. The course covers advanced router configurations; LAN switching; network management; and advanced network design. This course will help prepare students for the Cisco Certified Networking Associate (CCNA) examination.