



**Network Technology**  
**Credential: Voice Over IP Certificate**  
**C25340TL**

The Voice Over IP Certificate is a certificate under the curriculum title of Network Technology. This curriculum prepares students to understand and install various types of Voice over IP tools and models. This curriculum also develops operating skills needed to successfully manage and support these devices.

Course work includes extensive hands-on experience with different network electronics, operating systems, and Voice over IP tools. Classes cover installation and support of various Voice over IP electronics, Voice over IP software, troubleshooting, administrative responsibilities, and other tools.

Graduates should qualify for positions such as: LAN/PC VoIP technician and network VoIP technician. Graduates are also prepared to sit for certification exams that can result in industry-recognized credentials. Credits earned in this certificate program will transfer into the Associate in Applied Science Degree in Network Technology. Students must meet the higher entrance requirements.

Program Length: 2 semesters  
 Career Pathway Options: Associate in Applied Science Degree in Network Technology.  
 Program Sites: Program Sites: Lee Campus – Night Program

Course Requirements for Voice Over IP Certificate

Required Major Core Courses (15 SHC)			
CIS 110	Introduction to Computers		2-2-3
NET 116	Fund of Voice/Data Cable		2-2-3
NET 125	Networking Basics		1-4-3
NET 126	Routing Basics		1-4-3
NET 230	Wide Area Networking		<u>2-2-3</u>
			8-14-15

Total Semester Hours Credit: 15

**COURSE DESCRIPTIONS**

**CIS 110 Introduction to Computers 2-2-3**

This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural science/mathematics (Quantitative Option). This course is also available through the Virtual Learning Community (VLC).

**NET 116 Fund of Voice/Data Cable 2-2-3**

*Prerequisites: CIS 110 or CIS 111 or CTS 125*  
 This introductory course to Voice and Data Cabling focuses on cabling issues related to data and voice connections. Topics include skills in design documentation, determining cabling equipment, pulling, mounting and managing cable, selecting wiring closets, terminating cable, installing jacks, and testing cable. Upon completion, students should be able to understand of the industry, media and cabling, physical and logical networks, and signal transmission.

**NET 125 Networking Basics 1-4-3**

This course introduces the networking field. Emphasis is placed on network terminology and protocols, local-area networks, wide-area networks, OSI model, cabling, router programming, Ethernet, IP addressing, and network standards. Upon completion, students should be able to perform tasks related to networking mathematics, terminology, and models, media, Ethernet, subnetting, and TCP/IP Protocols.

**NET 126 Routing Basics 1-4-3**

*Prerequisites: NET 125*  
 This course focuses on initial router configuration, router software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Emphasis will be placed on the fundamentals of router configuration, managing router software, routing protocol, and access lists. Upon completion, students should have an understanding of routers and their role in WANs, router configuration, routing protocols, TCP/IP, troubleshooting, and ACLs.

**NET 230 Wide Area Networking 2-2-3**

*Prerequisites: NET 110 or NET 125*  
 This course is designed to introduce significant aspects of network interconnectivity. Topics include LAN-to-LAN, LAN-to-host, LAN-to-WAN connectivity, Internet connections, and voice-video-data transmission. Upon completion, students should be able to demonstrate an understanding of wide area networking.