



## Computer Information Technology Credential: Network Technologist Certificate C25260NT

Program Length: 2 semesters  
 Career Pathway Options: Associate in Computer Information  
 Technology or Networking Technology  
 Program Sites: Lee Campus - Day Program

Students will learn skills necessary for an entry-level PC/networking technician, including PC installation, maintenance, and repair, and network installation, maintenance, and troubleshooting. The primary emphasis of the curriculum is to provide students with entry-level to intermediate knowledge of these topics.

Graduates should qualify for employment in business, industry, and government organizations as entry-level PC or network technicians, helpdesk technicians, or any generalist computer technician.

### Course Requirements for Network Technician Certificate

CIS 110	Introduction to Computers	2-2-3
CTS 120	Hardware/Software Support	2-3-3
CTS 220	Advanced Hard/Software Support	2-3-3
NET 110	Networking Concepts	2-2-3
NET 111	Internetwk Arch and Design	2-2-3

Total Semester Hours Credit: 15

**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).*

**CTS 120 Hardware/Software Support** 2-3-3  
*Prerequisites: CIS 110 or CIS 111*  
 This course covers the basic hardware of a personal computer, including installation, operations and interactions with software. Topics include component identification, memory-system, peripheral installation and configuration, preventive maintenance, hardware diagnostics/repair, installation and optimization of system software, commercial programs, system configuration, and device-drivers. Upon completion, students should be able to select appropriate computer equipment and software, upgrade/maintain existing equipment and software, and troubleshoot/repair non-functioning personal computers.

**CTS 220 Adv Hard/Software Support** 2-3-3  
*Prerequisites: CTS 120*  
 This course provides advanced knowledge and competencies in hardware and operating system technologies for computer technicians to support personal computers. Emphasis is placed on: configuring and upgrading; diagnosis and troubleshooting; as well as preventive maintenance of hardware and system software. Upon completion, students should be able to install, configure, diagnose, perform preventive maintenance, and maintain basic networking on personal computers.

**NET 110 Networking Concepts** 2-2-3  
 This course introduces students to the networking field. Topics include 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. *This course is also available through the Virtual Learning Community (VLC).*

**NET 111 Internetwk Arch & Design** 2-23  
*Prerequisites: CIS 282 or NET 110*  
 This course introduces the physical and logical design of local area networks, wide area networks, and networking devices used in the design implementation and integration. Topics include LAN segmentation, VLANS, IP addressing, router, switch, and server placement with an emphasis on design. Upon completion, students should be able to understand fundamental LAN and WAN design and the physical and logical aspects needed to achieve the design goal.