



Network Technology
Credential: Small Office / Home Office
Certificate (SOHO)
C25340SH

The Small Office / Home Office Certificate (SOHO) is a certificate under the curriculum title of Network Technology. This curriculum prepares students to understand and install various types of office and home network electronics. This curriculum also develops operating skills needed to successfully manage and support home and small office devices.

Course work includes extensive hands-on experience with different network electronics and support tools. Classes cover installation and support of various network electronics, management software, troubleshooting, and administrative responsibilities.

Graduates should qualify for positions such as: LAN/PC administrator, network technician, network analyst, and information systems specialist. 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 Small Office / Home Office Certificate (SOHO)

Required Major Core Courses (12 SHC)	C-L-SHC
NET 113 Home Automation Systems	2-2-3
NET 125 Networking Basics	1-4-3
NET 126 Routing Basics	1-4-3
NET 175 Wireless Technologies	<u>2-2-3</u>
	6-12-12
Total Semester Hours Credit: 12	

COURSE DESCRIPTIONS

NET 113 Home Automaton Systems 2-2-3

This course covers the design, installation, testing, troubleshooting, and customer service of a fully automated home. Emphasis is placed on a structured wiring system that integrates the home phone, TV, home theater, audio, video, computer network, lighting, security systems, and automation systems into a pre-wired, remote controlled system. Upon completion, students should be able to design, install, and maintain home automation systems.

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 175 Wireless Technology 2-2-3

Prerequisites: NET 110 or NET 125

This course introduces the student to wireless technology and interoperability with different communication protocols. Topics include Wireless Application Protocol (WAP), Wireless Mark-up language (WML), link manager, service discovery protocol, transport layer and frequency band. Upon completion, students should be able to discuss in written and oral form protocols and procedures required for different wireless applications.