



Computer Information Technology Credential: Internet and Computing Core - IC3 Certificate C25260IC

Students will solve general computer problems through computer literacy techniques using appropriate learning methods and procedures. The primary emphasis of the curriculum is hands-on training in word processing applications, spreadsheet applications, presentation applications, database applications, basic computer concepts, networking concepts, Internet concepts and other related computer areas that provide the ability to adapt as information systems evolve. Once course requirements are met, students will be prepared to take the globally recognized IC3 Certification Exam offered by Certiport.

Graduates should qualify for employment in business, industry, and government organizations as entry-level computer users.

Entrance Standards: See General Admission Standards on page 6.
Academic Standards: See General Academic Standards on page 18.
Program Length: 2 semesters
Career Pathway Options: Associate in Computer Information Technology or Networking Technology
Program Sites: Lee Campus - Day and Evening Programs

Course Requirements for Software Specialist Certificate

CIS 110	Introduction to Computers	2-2-3
CTS 120	Hardware/Software Support	2-3-3
NET 110	Networking Concepts	2-2-3
NOS 110	Operating System Concepts	2-3-3

Total Semester Hours Credit: 12

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.

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).*

NOS 110 Operating System Concepts 2-3-3
This course introduces students to a broad range of operating system concepts, including installation and maintenance. Emphasis is place on operating system concepts, management, maintenance, and resources required. Upon completion of this course, students will have an understanding of OS concepts, installation, management, maintenance, using a variety of operating systems.