

Engineering Technologies
Computer Engineering Technology
Credential: Associate in Applied Science Degree in
Computer Engineering Technology
A4016000

The Computer Engineering Technology curriculum provides the skills required to install, service, and maintain computers, peripherals, networks, and microprocessor and computer controlled equipment. It includes training in both hardware and software, emphasizing operating systems concepts to provide a unified view of computer systems.

Course work includes mathematics, physics, electronics, digital circuits, and programming, with emphasis on the operation, use, and interfacing of memory and devices to the CPU. Additional topics may include communications, networks, operating systems, programming languages, Internet configuration and design, and industrial applications.

Graduates should qualify for employment opportunities in electronics technology, computer service, computer networks, server maintenance, programming, and other areas requiring a knowledge of electronic and computer systems. Graduates may also qualify for certification in electronics, computers, or networks.

Entrance Standards: See General Admission Standards on page 7 (Gen. Info section).

Academic Standards: See General Academic Standards on page 18 (Gen. Info section).

Program Length: 5 semesters.

Career Pathway Options: Associate of Applied Science Degree in Computer Engineering Technology.

Program Sites: Lee Campus - Day

Course Requirements for Computer Engineering Technology Degree

A. General Education (16 SHC)		C-L-SHC
ENG 111	Expository Writing	3-0-3
ENG 111A	Expository Writing Lab	0-2-1
ENG 114	Prof Research & Reporting	3-0-3
MAT 121	Algebra/Trigonometry I	2-2-3
	Humanities Elective	3-0-3
	Social Science Elective	3-0-3
B. Required Major Core Courses (19 SHC)		
CET 111	Computer Upgrade/Repair I	2-3-3
CSC 134	C++ Programming	2-3-3
ELC 131	DC/AC Circuit Analysis	4-3-5
ELN 131	Electronic Devices	3-3-4
ELN 133	Digital Electronics	3-3-4

C. Other Major Hours Required for Graduation (32 SHC)

CET 211	Computer Upgrade/Repair II	2-3-3
CET 225	Digital Signal Processing	2-2-3
CIS 110	Intro to Computers	2-2-3
ELN 232	Intro to Microprocessors	3-3-4
ELN 233	Microprocessor Systems	3-3-4
ELN 275	Troubleshooting	1-3-2
MAT 122	Algebra/Trigonometry II	2-2-3
NET 110	Networking Concepts	2-2-3
NOS 110	Operating Systems Concepts	2-2-3
PHY 131	Physics: Mechanics	3-2-4
	Technical Electives	5

Technical Electives may be selected from the following courses: (5/6 SHC)

CSC 139	Visual BASIC Programming	2-3-3
CSC 151	JAVA Programming	2-3-3
ELN 234	Communications Systems	3-3-4
ELN 247	Electronics Application Proj.	1-3-2
NET 125	Networking Basics	1-4-3
NET 126	Routing Basics	1-4-3
NOS 120	Linux/UNIX Single User	2-2-3
NOS 130	Windows Single User	2-2-3

Total Semester Hours Credit in Program: 72

Semester Curriculum for Computer Engineering Technology Degree

1st Semester (Fall)		C-L-SHC
CIS 110	Introduction to Computers	2-2-3
ELC 131	DC/AC Circuit Analysis	4-3-5
ENG 111	Expository Writing	3-0-3
ENG 111A	Expository Writing Lab	0-2-1
MAT 121	Algebra/Trigonometry I	2-2-3
NET 110	Networking Concepts	2-2-3

13-11-18

2nd Semester (Spring)		
ELN 131	Electronic Devices	3-3-4
ELN 133	Digital Electronics	3-3-4
MAT 122	Algebra/Trigonometry II	2-2-3
NOS 110	Operating Systems Concepts	2-2-3
PHY 131	Physics-Mechanics	3-2-4

13-12-18

3rd Semester (Summer)		
CSC 134	C++ Programming	2-3-3
ENG 114	Prof Research & Reporting	3-0-3

5-3-6

4th Semester (Fall)		
CET 111	Computer Upgrade/Repair I	2-3-3
ELN 232	Intro. to Microprocessors	3-3-4
	Social Science Elective	3-0-3
	Technical Elective	3

12-12-13

5th Semester (Spring)

CET 211	Computer Upgrade/Repair II	2-3-3
ELN 233	Microprocessor Systems	3-3-4
ELN 275	Troubleshooting	1-3-2
	Humanities Elective	3-0-3
	Technical Elective	3
		11-11-15

Total Semester Hours Credit: 72