

Electronics Engineering Technology
Credential: Associate in Applied Science Degree in
Electronics Engineering Technology
A4020000

This curriculum prepares individuals to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, telecommunication systems, and power electronic systems.

A broad-based core of courses, including basic electricity, solid-state fundamentals, digital concepts and microprocessors ensures the student will master the competencies necessary to perform entry-level tasks. Emphasis is placed on developing the student's ability to think, analyze, and troubleshoot.

Graduates should qualify for employment as engineering assistants or electronic technicians with job titles including electronic engineering associate, electronic engineering technician, field service technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

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 in Applied Science Degree in Electronics Engineering Technology
 Program Sites: Lee Campus - Day Program

Course Requirements for Electronics Engineering Technology

A. General Education Courses (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 (17 SHC)		
ELC 131	DC/AC Circuit Analysis	4-3-5
ELN 131	Electronic Devices	3-3-4
ELN 133	Digital Electronics	3-3-4
ELN 232	Intro. to Microprocessors	3-3-4

C. Other Major Hours Required for Graduation (43 SHC)		
CIS 110	Intro to Computers	2-2-3
EGR 131	Intro. to Electronics Tech.	1-2-2
ELC 127	Software for Technicians	1-3-2

ELN 132	Linear IC Applications	3-3-4
ELN 233	Microprocessor Systems	3-3-4
ELN 234	Communications Systems	3-3-4
ELN 247	Electronic Appl. Project	1-3-2
ELN 275	Troubleshooting	1-3-2
ISC 221	Statistical Quality Control	3-0-3
MAT 122	Algebra/Trigonometry II	2-2-3
PHY 131	Physics - Mechanics	3-2-4
PHY 133	Physics-Sound & Light	3-2-4
	Major Elective	6

Major Elective Course Listing (Select 6 SHC)		
CET 111	Computer Upgrade/Repair I	2-3-3
CET 225	Digital Signal Processing	2-2-3
CSC 134	C++ Programming	2-3-3
CSC 151	JAVA Programming	2-3-3
DFT 151	CAD I	2-3-3
ELC 128	Intro to PLC's	2-3-3
ELC 213	Instrumentation	3-2-4
ELN 236	Fiber Optics and Lasers	3-2-4
NET 110	Networking Concepts	2-2-3
NOS 110	Operating Systems Concepts	2-2-3

Total Semester Hours Credit Required for Graduation: 76

Semester Curriculum for Electronics Engineering Technology Degree

1st Semester (Fall)		
CIS 110	Intro to Computers	2-2-3
EGR 131	Intro to Electronics Tech.	1-2-2
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
		12-11-17

2nd Semester (Spring)		
ELC 127	Software for Technicians	1-3-2
ELN 131	Electronic Devices	3-3-4
ELN 133	Digital Electronics	3-3-4
MAT 122	Algebra/Trigonometry II	2-2-3
PHY 131	Physics - Mechanics	3-2-4
		12-13-17

3rd Semester (Summer)		
ELN 132	Linear IC Applications	3-3-4
PHY 133	Physics-Sound & Light	3-2-4
		6-5-8

4th Semester (Fall)		
ELN 232	Intro to Microprocessors	3-3-4
ELN 234	Communications Systems	3-3-4
ENG 114	Prof Research & Reporting	3-0-3
	Social Science Elective	3-0-3
	Major Elective	3
		14-9-17

5th Semester (Spring)

ELN 233	Microprocessor Systems	3-3-4
ELN 247	Electronic App. Project	1-3-2
ELN 275	Troubleshooting	1-3-2
ISC 221	Statistical Quality Control	3-0-3
	Humanities Elective	3-0-3
	Major Elective	3
		11-9-17

Total Semester Hours Credit: 76