

Manufacturing, Transportation & Industrial Technology

GUIDED PATHWAY: ELECTRONIC TECHNOLOGIES (AAS, Certificate) Industrial and Electronic Technologies Department



This is an example course sequence for students interested in pursuing an award in Electronic Technologies. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn an Associate of Applied Science (AAS) degree in Electronic Technologies or certificate awards in Electronic Technologies. ¹

The Electronic Technologies Program offers an Associate in Applied Science degree (D) in Electronic Technologies as well as Electronic Technologies Certificate I (C1) and an Electronic Technologies Certificate II (C2). Certificates are short term awards that are also a component of the program's degree. All program courses are practical in nature. Lectures are supplemented by dedicated labs where emphasis is placed on the progressive attainment of skills in a "hands-on" environment.

COLLEGE READINESS REQUIREMENTS *(only for the AAS)*

Enrolling in one or more courses may be necessary if assessment activities and previous academic experiences indicate a need for additional knowledge and skills:

READING & WRITING PLACEMENT

TSI MET: YES NO
IF NO, ADVISOR INSERT COURSE(S) NEEDED

- INRW _____
- OTHER: _____

MATH PLACEMENT

TSI MET: YES NO
IF NO, ADVISOR INSERT COURSE(S) NEEDED

- DEV MATH _____
- OTHER: _____

ENGLISH LANGUAGE PROFICIENCY

TSI MET: YES NO
IF NO, ADVISOR INSERT COURSE(S) NEEDED

- ESOL _____
- OTHER: _____

Exemptions/waivers may exist. Speak with an academic advisor regarding placement in college readiness courses and your ability to enroll in core academic coursework.

SEMESTER BY SEMESTER MAP FOR FULL-TIME STUDENTS²

D	C1	C2	SEMESTER 1	ACTION ITEMS
◆	◆	◆	CETT 1409 – DC-AC Circuits	<input type="checkbox"/> Meet with your advisor to confirm academic and career goals before the end of the semester. <input type="checkbox"/> Meet with a career advisor or instructor to research your career options and opportunities for job shadowing.
◆	◆	◆	CETT 1449 – Digital Systems	
◆	◆	◆	INTC 1307 – Instrumentation Test Equipment	
◆	◆	◆	CPMT 1411 – Introduction to Computer Maintenance	
TOTAL SEMESTER CREDIT HOURS: 15				
D	C1	C2	SEMESTER 2	ACTION ITEMS
◆	◆		CETT 1429 – Solid State Devices	<input type="checkbox"/> Meet with your advisor to file and official degree plan, confirm or update your academic/career path and program of study. <input type="checkbox"/>
◆	◆		CPMT 1351- IT Essentials: PC Hardware and Software	
◆	◆		ENER 2325 - SCADA and Networking	
			EECT 1204 - Electronic Soldering	
TOTAL SEMESTER CREDIT HOURS: 12				
D	C1	C2	SUMMER SESSION 1	ACTION ITEMS
◆			ENGL 1301 – Composition I (C)	<input type="checkbox"/>
TOTAL SEMESTER CREDIT HOURS: 3				
D	C1	C2	SUMMER SESSION 2	ACTION ITEMS
◆			Elective – Mathematics Elective	<input type="checkbox"/>
TOTAL SEMESTER CREDIT HOURS: 3				
D	C1	C2	SEMESTER 3	ACTION ITEMS
◆			EECT 2435 - Telecommunications	
◆			INCR 1344 - Microprocessor Systems Maintenance	
◆			Elective - Language, Philosophy and Culture / Creative Arts Elective	
◆			Elective – American History/Government/Political Science/Social and Behavioral Science	
TOTAL SEMESTER CREDIT HOURS: 13				
Continued on next page				

D		SEMESTER 4	ACTION ITEMS
◆		CPMT 2302 - Home Technology Integration	
◆		ELMT 2337 – Electronic Troubleshooting Service and Repair	
		INTC 2366 - Distributed Control and Programmable Logic	
◆		CETT 2281 – Cooperative Education – Computer Engineering Technology/Technician ³	
◆		Elective – Science	

TOTAL SEMESTER CREDIT HOURS: 15

AAS DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS/PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS

1. Degree plans may change in later catalogs. Be sure to consult with your advisor if you are continuing on an older degree plan.
 2. Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by Laredo College awarding the degree.
 3. Capstone Course -
- C** This course counts for the Core Curriculum at any public college or university in Texas.

Certification and Licensure Information

The **Associate Certified Electronics Technician (CETa)** is designed for encompassing the basic electronics theory and applications used in all electronics disciplines including electrical theory, test equipment, circuits, telecommunications basics, and work procedures.

Career Information

Common Job Titles

Electronic Technician	Electronic Specialist	Electronic Installer
Electronic Technologist	Instrumentation Technician	Electro-mechanical Technician

Regional Labor Market Information

The median annual wage for electrical and electronics engineering technologists and technicians was \$63,640 in May 2021.

Career and Labor Market Research Tools

Bureau of Labor Statistics: <http://www.bls.gov/ooh/>, O*NET: <https://www.onetonline.org/>