



Electrical and Electronics Technology

Program Overview

The Galveston College Electrical/Electronics Technology program combines industry-standard equipment with hands-on training to prepare students for a career in residential, commercial and industrial electrical and electronics.

Housed at the Charlie Thomas Family Applied Technology Center, the Galveston College Electrical/Electronics Technology program provides comprehensive training to meet the industry's continued and changing demands for qualified personnel.

Areas of Study:

- AC/DC theory
- Digital electronics
- Industrial motor controls
- Basic wiring practices
- Programmable logic controllers
- The National Electric Code
- Microprocessors



The Electrical/Electronics Technology program is accredited by the National Center for Construction Education and Research (NCCER) and is also a testing site for the Electronic Technicians Association (ETA).

Upon completion of certificates and/or the associate degree, successful students will be registered into a national NCCER database where prospective employers can search for qualified candidates.

Employment Outlook

Electric/electronics technicians install and maintain electric and electronic systems in a variety of settings.

According to the U.S. Bureau of Labor Statistics, the median salary for electrical and electronics technicians is \$66,390 annually.

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Certificate & Degree Plans

The Electrical/Electronics Technology program utilizes learning cohorts and each class is offered consecutively throughout the course of the program. Students may choose to complete up to three levels of certification or an Associate of Applied Science degree.

Level One Certificate (Entry Level)

One Semester
(16 credit hours)

Level One Certificate (Advanced Level)

Two Semesters
(30 credit hours)

Level Two Certificate (Advanced Level)

Three Semesters
(45 credit hours)

Associate of Applied Technology

Four Semesters
(60 hours)

Semester One: Level One Certificate (Entry Level)

Course Number	Course Name	Credits
ELPT 1221	Introduction to Electrical Safety & Tools	2
ELPT 1411	Basic Electrical Theory	4
ELPT 1325	National Electric Codes I	3
CETT 1402	Electricity Principles	4
ELPT 1345	Commercial Wiring	3
Total Semester Hours		16

Semester Two: Level One Certificate (Advanced)

All semester one coursework plus

Course Number	Course Name	Credits
INTC 1457	AC/DC Motor Control	4
CETT 1307	Fundamentals of Electronics	3
ELPT 2319	Programmable Logic Controllers I	3
CETT 1415	Digital Applications	4
Total Semester Hours		14

Semester Three: Level Two Certificate (Advanced)

All semester one and semester two coursework plus

Course Number	Course Name	Credits
ELPT 2455	Programmable Logic Controllers II	4
CETT 1449	Digital Systems	4
ELPT 2449	Industrial Automation	4
CETT 2335	Advanced Microprocessors	3
Total Semester Hours		15

Semester Four: Associate of Applied Science

All semester one, two and three coursework plus

Course Number	Course Name	Credits
ENGL 1301	Composition I	3
SPCH 13XX	Speech Elective	3
	Math or Life & Physical Science	3
	Language, Philosophy & Culture/Creative Arts	3
	Social/Behavior Science Elective	3

ter Hours 15



gc.edu/electronics | 409-944-1410 | tbearden@gc.edu

Galveston College Charlie Thomas Family Applied Technology Center, 7626 Broadway, Galveston, TX 77554

