



Commercial and Residential Electrician Associate of Applied Science

AAS.ELPT
2023-2024

Texas Southmost College
Division of Business, Engineering, Architecture, and Technology

A degree in Commercial and Residential Electrician will prepare students for entry level positions in an electrician career. It also provides hands-on instruction in all aspects of maintenance, operations, troubleshooting and repair of circuits.

Recommended Course Sequence

FIRST YEAR – FALL SEMESTER	Credits	Core/ Program
ENGL 1301* Composition I	3	Core
ELPT 1321* Introduction to Electrical Safety and Tools	3	Program
ELTN 1391* Special Topics in Electrician	3	Program
ELPT 1329* Residential Wiring	3	Program
ELPT 1325* National Electrical Code I	3	Program
FIRST YEAR – SPRING SEMESTER	Credits	Core/ Program
MATH 1332* Contemporary Mathematics	3	Core
ELPT 1345* Commercial Wiring	3	Program
ELPT 1320* Fundamentals of Electricity II	3	Program
ELPT 1315* Electrical Calculations I	3	Program
ELTN 1343* Electrical Troubleshooting	3	Program
SECOND YEAR – FALL SEMESTER	Credits	Core/ Program
XXXX X3XX† Social & Behavioral Sciences Elective	3	Core
ELPT 1341* Motor Control	3	Program
ELTN 1391* Special Topics in Electrician	3	Program
ELPT 1357* Industrial Wiring	3	Program
ELPT 2319* Programmable Logic Controllers I	3	Program
SECOND YEAR – SPRING SEMESTER	Credits	Core/ Program
XXXX X3XX† Language, Philosophy & Culture/Creative Arts Elective	3	Core
SPCH 1315 Public Speaking OR SPCH 1318 Interpersonal Communication	3	Core
ELPT 2323* Transformers	3	Program
ELPT 2325* National Electrical Code II	3	Program
ELPT 2335* Electrical Theory and Devices	3	Program
Total Credit Hours for Graduation	60	

Check course core designation at the [Class Availability website](#).

This information is provided as an example only. You will develop a personalized plan with your Success Coach and faculty advisor/mentor that reflects your goals and interests. You are required to meet with an advisor each semester to ensure you are on track for graduation. This document does not contain all the information you need to stay on track for graduation.

*Grade of "C" or better is required for graduation.

†Students may take any course within this category of the TSC General Education Core Curriculum.



Commercial and Residential Electrician



Program Student Learning Outcomes

Program Student Learning Outcomes (PSLO) are statements that specify what students will know, be able to do or be able to demonstrate when they have completed the program.

1. Demonstrate ability to understand requirements of the National Electrical Code in all wiring installations.
2. Understand and apply knowledge in layout, assembly, installation, and troubleshooting of fixtures, devices, services, heating systems, pumps, motors, and motor controls used in residential, commercial, and some industrial locations.
3. Understand and apply knowledge of electrical theory and techniques of the trade, including blueprint reading, wiring, pipe bending, motor control, switching, power circuits and lockout/tag out procedures.