

**Commercial and Residential Electrician  
Associate of Applied Science**

Texas Southmost College  
Health Care, Career and Technical Education Division

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.

<b>FIRST YEAR - FALL SEMESTER</b>	<b>CREDIT HOURS</b>
ENGL 1301 <sup>+</sup> Composition I .....	3
ELPT 1321 Introduction to Electrical Safety and Tools.....	3
ELTN 1391 Special Topics in Electrician .....	3
ELPT 1329 Residential Wiring .....	3
ELPT 1325 National Electrical Code I .....	3

<b>FIRST YEAR - SPRING SEMESTER</b>	
MATH 1332 <sup>+</sup> Contemporary Mathematics .....	3
ELPT 1345 Commercial Wiring.....	3
ELPT 1320 Fundamentals of Electricity II .....	3
ELPT 1315 Electrical Calculations I.....	3
ELTN 1343 Electrical Troubleshooting .....	3

<b>SECOND YEAR - FALL SEMESTER</b>	
XXXX X3XX <sup>2</sup> Social and Behavioral Sciences Elective.....	3
ELPT 1341 Motor Control.....	3
ELTN 1391 Special Topics in Electrician .....	3
ELPT 1357 Industrial Wiring .....	3
ELPT 2319 Programmatic Logic Controllers I.....	3

<b>SECOND YEAR - SPRING SEMESTER</b>	
XXXX X3XX <sup>1</sup> Language, Philosophy & Culture/Creative Arts Elective.....	3
SPCH 1315 Public Speaking or	
SPCH 1318 Interpersonal Communication.....	3
ELPT 2323 Transformers .....	3
ELPT 2325 National Electrical Code II.....	3
ELPT 2335 Electrical Theory and Devices .....	3

**TOTAL CREDIT HOURS FOR GRADUATION - 60**

<sup>+</sup> Grade of “C” or better is required for graduation.

<sup>1</sup>Language, Philosophy & Culture/Creative Arts Electives: Any General Education Core course that meets these categories

<sup>2</sup>Social and Behavioral Sciences Elective: Any General Education Core course that meets this category.

TSI Requirement (Texas Success Initiative - any other state-approved test) - Student must pass all three sections of state-approved test to graduate with this degree.

A minimum grade of “C” must be obtained in each (ELTN, ELPT) course required in the degree plan.