

ELECTRICAL TECHNOLOGY

This program of study emphasizes the skills needed for employment in the electrical field. By the end of this program, students will have the opportunity to take the Journeyman Electrician Exam.

- **Associate of Applied Science Degree** – The Associate of Applied Science degree, in Electrical Technology, is a four semester program that contains technical, advanced technical and general education courses.

Admission Criteria: Placement test and preadmission advising.

Technical and General Education Courses

Fall Semester – First Year			Spring Semester – First Year		
Course Title		Credits	Course Title		Credits
ENV 102	Safety Orientation (OSHA 10)	1	ELT 140	National Electrical Code I	4
ELT 101	Introductory Craft Skills	3	ELT 150	Transformers	2
ELT 107	AC/DC Circuits	4	ELT 160	Commercial Wiring	4
ELT 108	Blueprint Reading	2	ENG 100	Technical Writing or ENG 101 English Composition 1	3/5
ELT 111	Residential Wiring	4	ELT 170	Commercial Wiring Lab / OJT	0
ELT 170	Residential Wiring Lab / OJT	0			
MAT 101	Technical Math or MAT 150 College Algebra	3/5			
Semester Total		17/19	Semester Total		13/15
Fall Semester – Second Year			Spring Semester – Second Year		
Course Title		Credits	Course Title		Credits
ELT 141	National Electrical Code II	4	ELT 225	Programmable Logic Control	3
ELT 210	Industrial Wiring	4	ELT 250	Generators and Emergency Systems	3
ELT 220	Motor Control	4	ELT 255	Advanced Automation and Controls	2
HUM 101	Ethics in the Workplace or PSY 101 General Psychology	3	ELT 260	Journeyman Exam Prep	4
COM 105	Public Speaking	3	CSA 105	Introduction to Computer Applications and Concepts	3
ELT 271	OJT / Internship	0	ELT 271	OJT / Internship	0
Semester Total		18	Semester Total		15
			Total Education Credits		63/67

PROGRAM OUTCOMES

- Exhibit professionalism.
- Demonstrate employability skills.
- Demonstrate competency in residential, commercial, and industrial installation and maintenance.
- Communicate effectively.
- Calculate accurately.
- Use appropriate electrical terminology.
- Interpret blueprints, diagrams, and schematics.
- Locate and comprehend the appropriate electrical code(s) for the objective to be accomplished safely.

GENERAL EDUCATION PROGRAM OUTCOMES

- Compose coherent written communication.
- Deliver coherent oral communication.
- Show proficiency in locating, analyzing, documenting, and ethically using information sources.
- Perform and interpret calculations.
- Develop logical problem solving skills and/or critical thinking skills.
- Identify appropriate strategies for gathering, analyzing, and displaying data to draw conclusions from scientific data.
- Collaborate effectively, which cultivates a respect for human diversity.
- Demonstrate technology literacy appropriate to area of study