

Area of Study: Science and Engineering
Pathway: Engineering Technology: Electrical
Type: Certificate
Curriculum Code: ENT.ELC.CERT (C446I)

(Total Program Credits: 16)

The Engineering Technology/Electrical Certificate program provides students with electrical skills in an industry setting. Students are taught electrical processes and safety such as OSHA general requirements for electrical work and equipment, electrical equipment, grounding, electrical standards and codes, electrical installation, and wiring. In addition, students will learn blueprints/schematics and specification reading, and other electrical processes needed for employability. Graduates will find entry-level employment as electrical technicians, industrial maintenance technicians, as well as apprentice level electricians, architecture, or journeymen.

PROGRAM LEARNING OUTCOMES:

At the successful completion of the Engineering Technology: Electrical Certificate, the graduate will be able to:

- identify electronic and electrical parts, both single and three-phase;
- interpret electrical wiring diagrams and symbols;
- prevent hazards on a construction site in accordance with OSHA 10-hour training guidelines;
- use the current National Electrical Code (NEC) for residential wiring in class projects;
- explain the principal operations of an electrical system components;
- demonstrate safety practices required for operation of an electrical system; and
- present as part of a design team the ethics that should be practiced in designing a product.

Program Map for Full-Time Students

Semester One: Fall	Category	Stackable Certificate	Stackable Degree	Next Steps
ARC 102 OSHA 10-Hour Construction Training (1)	<i>Required</i>			Meet with your Academic Advisor to finalize your academic plan for graduation and register for stackable certificate/degree (option).
COT 107 ◊ Codes, Specifications and Print Reading (3)	<i>Required</i>			
ENT 104 ◊ Electricity Basic Fundamentals (3)	<i>Required</i>			Submit graduation petition by deadline (check for the specific date in catalog or syllabus.)
ENT 201# Electrical Residential Wiring (3)	<i>Required</i>			
ENT 202# Electricity Sustainable Applications (4)	<i>Required</i>			
ENT 203# Electrical Codes and Standards (2)	<i>Required</i>			

16 Credit hours

See ENT course descriptions (p. **Error! Bookmark not defined.**); ARC course descriptions (p. **Error! Bookmark not defined.**) and COT course descriptions (p. **Error! Bookmark not defined.**).

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