

Career Technical Education Pathway
Electrical Systems Technology—Residential Electrical Tech (Line Tech Prep)
C35130P3

The Electrical Systems Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities. Coursework, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require.

Student Learning Outcomes:

- Use electrical test equipment including volt meters, ohm meters, and amp meters to measure voltage, trouble-shoot, analyze and repair electric apparatus found in residences such as receptacles, light switches, circuit breakers, special purpose outlets.
- Install and maintain equipment which consists of conduit, service and lighting panels found in commercial related businesses such as schools, malls, stores, theaters, restaurants, and churches.
- Create and test diagrams and schematics related to circuit systems in various electrical processes.

*Please see MCC Catalog for complete details/further requirements.

Preq = prerequisite required

Required Courses:

ELC 112	DC/AC Electricity	5 credits	Preq – none
ELC 113	Residential Wiring	4 credits	Preq – none
ELC 118	National Electrical Code	2 credits	Preq – none
ELC 125	Diagrams and Schematics	2 credits	Preq – none
ISC 112	Industrial Safety	2 credits	Preq – none
ACA 115	Success & Study Skills	1 credit	Preq – none

CCP Certificate Total **16 credits**

Career Technical Education Pathway
Entrepreneurship Certificate Pathway
C25490P

The Entrepreneurship curriculum is designed to prepare students with the knowledge and skills necessary for employment and growth as self-employed business owners.

Student Learning Outcomes:

- Demonstrate an understanding of entrepreneurial concepts and how these concepts can lead to self-employment and business ownership.
- Identify and utilize appropriate technology, techniques and practices to collect, process, and interpret information for decision making and business promotion.
- Demonstrate professional interpersonal and communication skills necessary to create opportunities and to develop as a self-employed business owner.

*Please see MCC Catalog for complete details/further requirements.

Preq = prerequisite required

Required Courses:

ACC 120	Principles of Financial Accounting	4 credits	Preq – none
BUS 110	Introduction to Business	3 credits	Preq – none
ETR 220	Innovation and Creativity	3 credits	Preq – none
ETR 230	Entrepreneur Marketing	3 credits	Preq – none
ETR 240	Funding for Entrepreneurs	3 credits	Preq – ACC 120

CCP Certificate Total **16 credits**