

Martin Community College



High School-To-College ELECTRICAL/LINE TECH Pathway

The Electrical Systems Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential 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.
- Select, install, and maintain equipment found in industrial settings such as motors, motor starters, transformers, and PLCs. Interpret, write, and modify ladder logic diagrams used by control equipment and PLCs in industrial manufacturing processes.

PATHWAY: HS Diploma + Residential Electrical Tech Certificate (C35130P3) (Line Tech Prep)									
SECONDARY	Grade		English/ Lang. Arts	Math	Science	Social Studies	Health & PE	CTE Electives	Career & College Promise College Credit Courses taught by MCC Faculty
	9	Fall	English I	Fnd. of Math I	Earth Science		Health/PE		
		Spring		Math I		World History			
	10	Fall	English II		Phy. Science				
		Spring		Math II		Civics			ACA 115
	11	Fall	English III		Found of Bio.	American Hist.			ELC 112, ELC 113
		Spring		Math III	Biology				ISC 112
	12	Fall	English IV			Econ. & Personal Finance			ELC 118, ELC 125
		Spring		Math IV				CTE Internship	
Congratulations! High School Graduation. Next Step: Submit MCC Admission Application									
POST	13 Fall ELC 3014, ELC 3018 This course prepares individuals to work as linemen in the preparation and repair of electrical utility service. Course topics include basic element pole and electrical line construction, safety codes and applications, electric power system, transformer and meter installations, and exploration distribution. Upon completion, individuals will possess the necessary skills for employment in various electrical utility industries. Course conter outcomes defined by the Carolinas Energy Workforce Consortium. *Upon completion of the CCP Certificate and graduation from high school, the student would then register for the 16-week Electric Lines Technician pr Continuing Education. Once the Con Ed program is complete, students will be connected with power company employers for interviews.								
Congratulations! College completion of Apprentice Line Technician Credential									
BDM-8/2/21									

Student must be 18 years of age by completion of the Continuing Education course.