



Martin Community College



High School-To-College ELECTRICAL SYSTEMS TECHNOLOGY-Industrial Electrical Technician 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, 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.
- 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 + Industrial Electrical Tech I Certificate (C35130P2)										
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	-----	-----		*ELC 112
		Spring		-----	Math II	-----	Civics	-----	-----	*ELC 114
	11	Fall		English III	-----	Found of Bio	American Hist.	-----	-----	
		Spring		-----	Math III	Biology	-----	-----	-----	*ELC 117
	12	Fall		English IV	-----	-----	Econ. & Personal Finance	-----	-----	
		Spring		-----	Math IV	-----	-----	-----	-----	
Congratulations! High School Graduation! Next Step: Submit MCC Admission Application										
POST	13	Summer	ENG 110, **<i>Humanities/Fine Arts Elective</i>		Completion of courses in black/bold earn an Electrical Systems Technology Diploma (D35130).					
		Fall I	ACA 115, <i>BPR 111</i>, ELC 113, ELC 118, ELC 125, ISC 112, PSY 118							
		Spring I	**<i>CIS 110, ELC 128, ELC 131, ENG 115, MAT 110</i>							
	14	Fall II	<i>AHR 110, AHR 111, BUS 137, ELC 127</i>		Completion of courses in red/italics earn an Electrical Systems Technology A.A.S. Degree (A35130).					
Congratulations! College completion of Electrical Systems Technology A.A.S. Degree (A35130)										
*Only offered at MCC Williamston Campus. **College transfer courses that may be applied to a University Baccalaureate Degree Transfer Program.										