Pamlico Community College

Program Curriculum Map

Program Name: Electrical Systems Technology	
Program Coordinator Name: Larry D. Monk	Date: 02/24/2026
Program Student Learning Outcomes (PSLOs): 1. Construct, troubleshoot, and repair DC/AC circuits using electrical test equipment 2. Apply physical and mathematical concepts to demonstrate the functions of electronic circuits. 3. Demonstrate the ability to construct basic residential wiring and installation 4. Demonstrate the effective use of the National Electric Code to identify code sections and application of sizing, wiring, conduit, and overcurrent devices for branch circuits.	

Required Courses:

ELC 113 - Residential Wiring
ELC 114 - Commercial Wiring
ELC 118 - National Electrical Code
ELC 119 - NEC Calculations
ELC 117 – Motors & Control
ELC 132 – Electrical Drawing
ELC 138 – DC Circuit Analysis
ELC 139 – AC Circuit Analysis
ELC 215 – Electrical Maintenance
ISC 121 – Envir Health & Safety
ALT 120 – Renewable Energy
ELN 131 – Analog Electronics I
ELN 133 – Digital Electronics
ELC 111 – Intro to Electricity

Program Curriculum Map with Performance Targets

Performance Goal

1	2	3
Emerging (Outcome Introduced)	**Developing** (Outcome Reinforced)	**Proficient** (Outcome Emphasized)

Type	Course	Learning Outcome 1	Learning Outcome 2	Learning Outcome 3	Learning Outcome 4
Required	ELC 113	3	1	3	1
Required	ELC 114	3	1	3	1
Required	ELC 117	2	2	2	1
Required	ELC 118	1	1	1	2
Required	ELC 119	1	1	1	2
Required	ELC 132	1	1	1	1
Required	ELC 138	1	3	1	1
Required	ELC 139	1	3	1	1
Required	ELC 215	2	1	2	1
Elective	ELC 111	1	2	1	1
Elective	ISC 121	1	1	1	1
Elective	ALT 120	1	1	1	1
Elective	ELC 128	2	2	1	1
Elective	ELN 131	1	3	1	1
Elective	ELN 133	1	3	1	1