

ELECTRICAL SYSTEMS

Associate in Applied Science | Diploma | Certificate

The Electrical Systems Technology curriculum is designed to provide students with the skills and technical background required for entry-level employment in the installation and maintenance of electrical/electronic systems found in residential, commercial and industrial facilities.

To learn more visit www.piedmontcc.edu/elc

More about ELECTRICAL SYSTEMS

The Electrical Systems Technology curriculum is designed to provide students with the skills and technical background required for entrylevel employment in the installation and maintenance of electrical/electronic systems found in residential, commercial and industrial facilities.

Most training is hands-on and includes such topics as AC/DC theory, basic wiring practices, digital electronics, programmable logic controllers, industrial motor controls, and the National Electric Code.

Outlook for EMPLOYMENT

Upon successful completion of this program, graduates will qualify for entry-level employment in the electrical/electronics or renewable energy fields. Specific jobs include entry level positions as an electrician, electronics technician or an electrical/electronics maintenance specialist.

Electrician Electronics Technician Electrical Maintenance Specialist

Elective COURSES

ELN/ELC Elective Choices
PHY 110/110A Physics ***
PHY 151 College Physics ***

ELC 213 Instrumentation

Social Science Elective Choices

ECO 251 Principles of Microeconomics ECO 252 Principles of Macroeconomics SOC 210 Intro to Sociology PSY 150 General Psychology

COURSES

Required Courses for Program	AAS	DIP	CERT
ACA 111 College Student Success *			
ACA 122 College Transfer Success *			
CIS 110 Intro to Computers			
COM 231 Public Speaking			
ELC 112 DC/AC			
ELC 113 Residential Wiring			
ELC 115 Industrial Wiring			
ELC 117 Motors and Controls			
ELC 118 National Electrical Code (NEC)			
ELC 128 Intro to PLC			
ELC 213 Instrumentation			
ELC 228 PLC Applications			
ELC 229 Electrical Project			
ELN 131 Analog Electronics 1			
ELN 133 Digital Electronics			
ELN 135 Electronic Circuits			
ENG 111 Writing and Inquiry			
HUM 110 Tech Society ****			
HUM 115 Critical Thinking ****			
ISC 112 Industrial Safety			
ISC 170 Problem Solving			
MAT 143 Quantitative Literacy **			
MAT 171 Pre-Cal Algebra **			
MAT 172 Pre-Cal Trigonometry ***			
XXX ELC/ELN Elective (See list in the left column)			
XXX Social Science Elective (See list in the left column)			
Total Semester Hours Required	69/70	46/47	17

Courses with matching symbols indicate OR/AND requirements. Review back page or contact Student Development for more information.

AAS = Associate in Applied Science DIP= Diploma (Commercial Wiring) CERT = Certificate (Residential Wiring)

Denotes required for degree completion

ELECTRICAL SYSTEMS

Associate in Applied Science | Diploma | Certificate

Process for ADMISSIONS

- Submit a complete Application for Admission to the Office of Admissions.
- Submit official transcript(s) of high school education and all post-high school course work to the Office of Admissions if requested. Office GED scores or transcript of courses for the Adult High School Diploma may be submitted in lieu of the high school transcript.
- Complete the Admission Placement Test.
- Diploma and certificate admission requirements may vary. Contact the Admissions Office for details.



Program CONTACTS

Mac McCormick (336) 322-2178 mac.mccormick@piedmontcc.edu Person County Campus - S120

Walter Montgomery, Dean (336) 322-2258 walter.montgomery@piedmontcc.edu Person County Campus - L119



Person County Campus 1715 College Drive Roxboro, NC 27573

(336) 599-1181

Caswell County Campus

331 Piedmont Drive Yanceyville, NC 27379 (336) 694-5707

ASSOCIATE IN APPLIED SCIENCE

Suggested Course Sequence Full-time Student

Course#	Course Name	CL.	LB.	CLIN.	CR.		
FALL SEM	ESTER						
ACA 11	1 College Student Success OR	1	0	0	1		
ACA 12	2 College Transfer Success	0	2	0	1		
ELC 11		3	6	0	5		
ELC 11	3 Residential Wiring	2	6	0	4		
ENG 11	1 Writing and Inquiry	3	0	0	3		
MAT 14		2	2	0	3		
MAT 17	1 Pre-Calc Algebra	3	2	0	4		
	G	10-12	14-16	0	16-17		
CDDING CE	MECTED						
SPRING SE		0	C	0	4		
ELC 11	S .	2	6	0	4		
ELC 11		1	2	0	2		
ELN 13	3	3	3	0	4		
ISC 11	•	2	0	0	2		
MAT 17	0 3	3	2	0	4		
PHY	Elective (110 & 110A OR 151)	3	2	0	4		
		11	13	0	16		
OURANIED A	OFMECTED.						
	SEMESTER						
ELC 11	7 Motors and Controls	2	6	0	4		
		2	6	0	4		
FALL SEMESTER							
CIS 11	0 Intro to Computers	2	2	0	3		
ELC 12		2	3	0	3		
ELC 21	3 Instrumentation	2	2	0	4		
ELN 13		3	2	0	4		
ISC 17	S .	3	0	0	3		
	3	12	9	0	17		
SPRING SE	EMESTER						
HUM 11		3	0	0	3		
HUM 11	_	3	0	0	3		
ELN 13	9	2	3	0	3		
ELC 22		2	6	0	4		
COM 23	1 1	3	0	0	3		
	/PSY Elective	3	0	0	3		
200,200	, , , , , , , , , , , , , , , , , , , ,	13	9	Ő	16		
		48-50	51-53	0	69-70		
		10 00	3.00	U	00 10		

TOTAL SEMESTER HOURS REQUIRED FOR DEGREE: 69-70