

Scope and Sequence Electrical Technology



Academic Subjects – Career success and postsecondary education success require the same level of college prep coursework. The Pennsylvania Department of Education’s (PDE) focus is to ensure that every student is prepared for college and a career. Academic courses such as applied math or general science cannot be listed on the program’s scope and sequence. PDE’s goal is to have all students perform at the competent or advanced level on the PSSA, and earn the Pennsylvania Skills Certificate on the end-of-program assessment.

	Secondary School				Postsecondary Institution			
Subject (Hours)	Grade 9 (Hours)	Grade 10 (Hours)	Grade 11 (Hours)	Grade 12 (Hours)	First Semester	Second Semester	Third Semester	Fourth Semester
Technical		Orientation & Safety	Demonstrate Branch-Circuit Installation	Learn about Motor Controls	ELT 111: Direct Current Fundamentals	ELT 120: Construction Lab II - Commercial	ELT 234: Electrical Motor Control	ELT 244: Advanced Electrical Theory
		Learn about Construction Math	Explain Video, Voice & Data Wiring	Define Alternating Current	ELT 113: Accident Prevention	ELT 122: Alternating Current Fundamentals	ELT 235: Industrial Electronics	ELT 245: Intro to Programming Logic Control
		Demonstrate Use of Hand/Power Tools & Test/Measure	Electrical Service Introduction	Discuss Alternative Energy Systems	ELT 116: Construction Lab I - Residential	EDT 120: Electrical Drawing and Print Reading		ELT 248: Electrical Systems Analysis
		Describe & Define Hardware Materials	Demonstrate Blue Print Reading	Job Seeking/Keeping Skills				ELT 249: Programmable Logic Control Input/Output
		Demonstrate Electrical Box & Cable Installation	Learn about Raceways					
		Identify Switching & Receptacle Circuits	Define Electrical Principles					
		Install Fixtures	OSHA					
		Job Seeking/Keeping Skills	Job Seeking/Keeping Skills					
English	College Prep English 9	College Prep English 10	College Prep English 11	College Prep English 12	ENL 111: English Comp I		ENL 121: English Comp II	
							ENL 201: Technical & Professional Communication	
Math	Algebra I	Algebra II	Geometry	Trigonometry	MTH 180: College Algebra and Trig I	MTH 182: College Algebra and Trig II		
Science	Accl Integrated Science	Biology	Chemistry				PHS 114: Physics w/Technological Applications	
Humanities	Citizenship	World Cultures	American History I	American Government				_SSE: Elective Social Science
Other	Physical Education	Physical Education	Physical Education	Physical Education			FIT: Elective: Fitness	
	Health	Health	Driver's Ed Theory					