

Program Name:

ELECTRICAL TECHNOLOGY

2019-2020 SCOPE & SEQUENCE

Secondary Scope & Sequence

- ⊙ Technical - Major units and levels with estimated hours
- ⊙ Academic - Recommended

Subject – Hours	Level I	Estimate of Hours	Level II	Estimate of Hours	Level III	Estimate of Hours	Level IV	Estimate of Hours
Technical	INTRO TO ELECTRICAL SAFETY, MATH, HAND AND POWER TOOLS	125	BASIC MOTOR CONTROL-PUSHBUTTONS AND MOTOR STARTER	60	BASIC MOTOR CONTROL-TIMERS, SELENIDS, AND LIMIT SWITCHES	71	GREEN TECHNOLOGY APPLICATIONS	75
	BLUEPRINT READING	19	NATIONAL ELECTRIC CODE - SECTION VERIFICATION	70	COMMERCIAL AND INSTITUTIONAL WIRING CALCULATION AND APPLICATIONS	135	PNEUMATIC CONTROLS-APPLICATIONS	66
	ANCHORS AND SUPPORT AND RACEWAYS	35	FIXTURES AND OTHER WIRED DEVICES	65	NATIONAL ELECTRICAL CODE - APPLICATION	45	HYDRAULIC CONTROLS-APPLICATIONS	130
	CABLE TYPES, INSTALLATIONS, RESIDENTIAL CABLING TECHNOLOGY +B39	69	TESTING EQUIPMENT	40	GREEN TECHNOLOGY THEORY	28	NATIONAL ELECTRICAL CODE - INTERPRETATION	40
	SWITCHES AND RECEPTACLE CIRCUITS	72	ELECTIRCAL SERVICE	125	OTHER RESIDENTIAL ELECTRICAL REQUIREMENTS	54	BASIC PROGRAMMABLE CONTROLS-APPLICATIONS	20
	NATIONAL ELECTRIC CODE - STRUCTURE	40			TRANSFORMERS, GENERATORS, MOTORS, AND ALTERNATORS	15	INDUSTRIAL WIRING APPLICATIONS	29
					BASIC PROGRAMMABLE CONTROL LADDER DIAGRAMS	12		
							College Prep English IV	
English (4)	College Prep English I		College Prep English II		College Prep English III		Higher Level College Prep Math (recommended)	
Math (3)	Algebra I		Algebra II		Geometry			
Science (3)	Biology		Chemistry		Physics			
Humanities (covering these courses in any order) (3)	Civics		U.S. History		World History			
Other	Foreign Language I (recommended)		Foreign Language II (recommended)					