

**PROGRAM PLANNING GUIDE**

**ELECTRICAL SYSTEMS TECHNOLOGY**

**A35130 Fall Start**

**Replaces Curriculum Schedule with Revision Date: FA2019**

**Date Revised: FA2021**

**CURRICULUM BY SEMESTER**

			Hours Per Week		
Course No.		Course Title	Class	Lab	Credits
Semester 1					
BPR	130	Print Reading - Construction	3	0	3
ELC	112	DC/AC Electricity	3	6	5
ELC	113	Residential Wiring	2	6	4
ELC	118	National Electrical Code	1	2	2
ELC	126	Electrical Computations	2	2	3

Semester 2					
ELC	114	Commercial Wiring	2	6	4
ELC	117	Motors and Controls	2	6	4
ELC	119	NEC Calculations	1	2	2
ENG	110	Freshman Composition	3	0	3

Semester 3					
ELC	128	Introduction to PLC	2	3	3
ISC	121	Environmental Health & Safety	3	0	3
		Major Elective			3

Semester 4					
ELC	115	Industrial Wiring	2	6	4
HUM	115	Critical Thinking	3	0	3
MAT	110	Math Measurement and Literacy	2	2	3
		Major Elective			3
		Work-Based Learning Elective			2

Semester 5					
COM	120	Intro to Interpersonal Communication	3	0	3
ELC	127	Software for Technicians	1	3	2
ELC	134	Transformer Applications	1	2	2
PSY	118	Interpersonal Psychology	3	0	3
		Major Elective			3

**Graduation Requirement Credit Hours: 67**

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**MAJOR ELECTIVES**

<b>Renewable Energy Track</b>			<b>Hours Per Week</b>		
<b>Course No.</b>	<b>Course Title</b>		<b>Class</b>	<b>Lab</b>	<b>Credits</b>
Major Electives		Credit Hours Needed:	9		
ALT	120	Renewable Energy Technologies	2	2	3
ELC	220	Photovoltaic System Technology	2	3	3
ELC	221	Advanced Photovoltaic System Design	2	3	3

<b>Business Track</b>			<b>Hours Per Week</b>		
<b>Course No.</b>	<b>Course Title</b>		<b>Class</b>	<b>Lab</b>	<b>Credits</b>
Major Electives		Credit Hours Needed:	9		
BUS	110	Introduction to Business	3	0	3
BUS	115	Business Law I	3	0	3
BUS	139	Entrepreneurship I	3	0	3

**WORK-BASED LEARNING ELECTIVES**

			<b>Hours Per Week</b>		
<b>Course No.</b>	<b>Course Title</b>		<b>Class</b>	<b>Lab</b>	<b>Credits</b>
		Credit Hours Needed:	2		
ELC	121	Electrical Estimating	1	2	2
WBL	112	Work-Based Learning I	0	20	2