

Electrical Systems Technology – Electrical Pathway (A35130E) – 67-68 Credit Hours

2022-2023

Fall – 1 st Year				
Course Number	Course Name	Lec	Lab	Credit
CIS 110	Introduction to Computers (A)	2	2	3
BPR 115	Electrical/Fluid Power Diagram	1	2	2
ELC 118	National Electric Code ★ (A)	1	2	2
ELC 131	Circuit Analysis I	3	3	4
ELC 131A	Circuit Analysis I LAB	0	3	1
ENG 111	Writing and Inquiry (S)	3	0	3
MAT 121	Algebra/Trigonometry I (S) <i>or</i>	2	2	
MAT 171	Precalculus Algebra (S)	3	2	3-4
Total				18-19

Fall – 2 nd Year				
Course Number	Course Name	Lec	Lab	Credit
DFT 151	CAD I (A)	2	3	3
ELC 114	Commercial Wiring ★	2	6	4
ELC 121	Electrical Estimating	1	2	2
	Social/Behavioral Science Elective (S)			3
	Humanities/Fine Arts Elective (S)	3	0	3
Total				15

Spring – 1 st Year				
Course Number	Course Name	Lec	Lab	Credit
HYD 110	Hydraulics/Pneumatics I (A)	2	3	3
ELC 113	Residential Wiring ★ (A)	2	6	4
ELC 134	Transformer Applications	1	2	2
ELN 133	Digital Electronics	3	3	4
	Communications Elective (S)	3	0	3
Total				16

Spring – 2 nd Year				
Course Number	Course Name	Lec	Lab	Credit
ELC 115	Industrial Wiring ★ (A)	2	6	4
ELC 117	Motors and Controls (A)	2	6	4
ELC 128	Intro to PLC ★ (A)	2	3	3
ELC 220	Photovoltaic Sys Tech	2	3	3
WBL 111	Work-Based Learning I (and)	0	0	1
WBL 115	Work-Based Learning Seminar I	1	0	1
ISC 112	Industrial Safety ★★ (A)	2	0	2
Total				18

- ★ - Designates classes preparing students to sit for electrical contracting limited license
 - ★★ - Designates classes preparing students to sit for OSHA basic safety certification tests
 - (S) – Designates recommended classes for students starting in Spring of the first year.
 - (A) – Students may receive credit for this course by successfully completing the articulated non-credit course, or submitting evidence of an articulated industry certification.
- See: <https://spcc.edu/credit-articulation-at-spcc/>