

Electrical Systems Technology - Hydro-mechanical Pathway (A35130H) – 67-68 Credit Hour

2022-2023

Fall – 1 st Year				
Course Number	Course Name	Lec	Lab	Credit
BPR 115	Electrical/Fluid Power Diagram	1	2	2
CIS 110	Introduction to Computers (S) (A)	2	2	3
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
ELC 213	Instrumentation	3	2	4
HYD 121	Hydraulics/Pneumatics II	1	3	2
	Humanities/Fine Arts Elective	3	0	3
	Social/Behavioral Science Elective	3	0	3
	Communications Elective	3	0	3
Total				15

Spring – 1 st Year				
Course Number	Course Name	Lec	Lab	Credit
ELC 113	Residential Wiring ★ (A)	2	6	4
ELC 134	Transformer Applications	1	2	2
ELN 133	Digital Electronics	3	3	4
HYD 110	Hydraulics/Pneumatics I (A)	2	3	3
MEC 130	Mechanisms	2	2	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
HYD 210	Advanced Hydraulics	1	3	2
MEC 161	Manufacturing Processes I	3	0	3
WBL 111	Work-Based Learning I	1	0	1
WBL 115	Work-Based Learning Seminar I	0	0	1
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/>