

Electrical Systems Technology – Electrical/Electronics Engineering Pathway (A35130K) – 68 Credit Hours

2022-2023

This degree is aligned with the BSET in Electrical Engineering Technology offered at UNC Charlotte.

Fall – 1 st Year				
Course Number	Course Name	Lec	Lab	Credit
ACA 122	College Transfer Success (S)	0	2	1
ELC 131	Circuit Analysis I <i>and</i>	3	3	4
ELC 131A	Circuit Analysis I Lab	0	3	1
ENG 111	Writing and Inquiry (S)	3	0	3
MAT 171	Pre-Calculus Algebra (S)	3	2	4
	Communications Elective (S)			3
Total				16

Fall – 2 nd Year				
Course Number	Course Name	Lec	Lab	Credit
	Humanities/Fine Arts Elective (S)			3
ELN 232	Introduction to Microprocessors	3	3	4
MAT 271	Calculus I	3	2	4
PHY 151	College Physics I	3	2	4
Total				15

Spring – 1 st Year				
Course Number	Course Name	Lec	Lab	Credit
CSC 134	C++ Programming (A)	2	3	3
ELC 139	AC Circuit Analysis	3	3	4
ELN 133	Digital Electronics	3	3	4
MAT 172	Pre-Calculus Trigonometry	3	2	4
ELN 131	Analog Electronics I	3	3	4
Total				18

Spring – 2 nd Year				
Course Number	Course Name	Lec	Lab	Credit
ELC 113	Residential Wiring *	2	6	4
ELC 117	Motors and Controls (A)	2	6	4
ELC 128	Intro to PLC * (A)	2	3	3
PHY 152	College Physics II	3	2	4
	Social/Behavioral Science Elective (S)			3
Total				18

- ★ - Designates classes preparing students to sit for electrical contracting limited license
- (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/>

NOTE: Students are strongly encouraged to complete MAT 272 before they transfer to UNC Charlotte.