

**Curriculum Sequence Checklist  
Electrical Systems Technology – A35130**

**Course and Hour Requirements:**

			<u>Prereq/Coreqs</u>	<u>Class</u>	<u>Lab</u>	<u>Clin/Exp</u>	<u>Credit</u>
<b>First Semester (Fall)</b>							
ACA	122	College Transfer Success	(None)	0	2	0	1
EGR	125	Appl Software for Tech	(None)	1	2	0	2
ELC	131	Circuit Analysis I	(ELC 131A Coreq)	3	3	0	4
ELC	131A	Circuit Analysis I Lab	(ELC 131 Coreq)	0	3	0	1
ELC	113	Residential Wiring	(None)	2	6	0	4
ENG	110	Freshman Composition	(DRE 097)	3	0	0	3
<b>OR</b>							
ENG	111	Writing and Inquiry	(DRE 098)	3	0	0	3
MAT	121	Algebra/Trigonometry I	(DMA 010, DMA 020, 2 DMA 030, DMA 040, DMA 0050, and DMA 060)	2	2	0	3
<b>OR</b>							
MAT	171	Precalculus Algebra	(DMA 010, DMA 020, 3 DMA 030, DMA 040, DMA 0050, DMA 060 DMA 0070, and DMA 080 or MAT 121)	3	2	0	<u>4</u>
Semester Total							18 or 19
<b>Second Semester (Spring)</b>							
ELC	115	Industrial Wiring	(ELC 111 <i>Or</i> ELC 112 <i>Or</i> ELC 113 <i>Or</i> ELC 131)	2	6	0	4
ELC	117	Motors and Controls	(ELC 111 <i>Or</i> ELC 112 <i>Or</i> ELC 131)	2	6	0	4
ELC	213	Instrumentation	(ELC 112 <i>Or</i> ELC 131)	3	2	0	4
ELN	131	Analog Electronics I	(ELC 112 <i>Or</i> ELC 131)	3	3	0	<u>4</u>
Semester Total							16
<b>Third Semester (Summer)</b>							
ELN	260	Prog Logic Controllers	(None)	3	3	0	4
Social/Behavioral Science Core Elective			(Course Dependent)	3	0	0	<u>3</u>
Semester Total							7
<b>Fourth Semester (Fall)</b>							
ATR	280	Robotic Fundamentals	(None)	3	2	0	4
COM	110	Intro to Communication	(RED 090)	3	0	0	3
<b>Or</b>							

July 2019

COM 231	Public Speaking	(RED 090)	3	0	0	3
ELC 228	PLC Applications	(ELN 260)	2	6	0	4
Humanities /Fine Arts Core Elective		(Course Dependent)	3	0	0	3
HYD 110	Hydraulics/Pneumatics I	(DMA 010, DMA 020, DMA 030)	2	3	0	<u>3</u>

Semester Total  
17

**Fifth Semester (*Spring*)**

ATR 281	Automated Manufacturing	(ATR 280)	3	2	0	4
ELN 235	Data Communication Systems	(None)	3	3	0	4
ISC 112	Industrial Safety	(None)	2	0	0	2
PCI 264	Process Control with PLCs	(ELC 228)	3	3	0	<u>4</u>

Semester Total  
14

**Total Hours for Graduation**

**72**

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