

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

2018-2019

Fall – 1 st Year				
Course Number	Course Name	Lec	Lab	Credit
ELC 112	DC/AC Electricity (Fall Even)	3	6	5
ELC 113	Residential Wiring ★ (Fall Even)	2	6	4
ELN 131	Analog Electronics I	3	3	4
CIS 110	Introduction to Computers (S)	2	2	3
	Communications Elective (S)			3
Total				19

Fall – 2 nd Year				
Course Number	Course Name	Lec	Lab	Credit
DFT 151	CAD I	2	3	3
ELN 133	Digital Electronics	3	3	4
ENG 111	Writing and Inquiry	3	0	3
	Major Elective			3
	Social/Behavioral Science Elective			3
Total				16

Major Electives (Select 3 credit hours minimum)				
Course Number	Course Name	Lec	Lab	Credit
ATR 112	Intro to Automation	2	3	3
BPR 111	Print Reading	1	2	2
BUS 280	REAL Small Business	4	0	4
CTI 120	Network and Security Foundation	2	2	3
DFT 152	CAD II	2	3	3
ELC 213	Instrumentation	3	2	4
ELN 231	Industrial Controls	2	3	3
HYD 121	Hydraulics/Pneumatics II	1	3	2
ISC 112	Industrial Safety	2	0	2

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

Spring – 1 st Year				
Course Number	Course Name	Lec	Lab	Credit
ELC 118	National Elec. Code (S) ★	1	2	2
ELC 128	Intro to PLC (S)	2	3	3
HYD 110	Hydraulics/Pneumatics (S)	2	3	3
	Natural Science <i>Or</i> Math Elective (S)			3 - 4
ELN 132	Analog Electronics II	3	3	4
Total				15 - 16

Spring – 2 nd Year				
Course Number	Course Name	Lec	Lab	Credit
ELC 115	Industrial Wiring ★	2	6	4
ELC 117	Motors and Controls	2	6	4
ELC 215	Electrical Maintenance	2	3	3
ELC 220	Photovoltaic Sys Tech	2	3	3
	Humanities/Fine Arts Elective			3
Total				17

Major Electives (Select 3 credit hours minimum)				
Course Number	Course Name	Lec	Lab	Credit
MAC 114	Intro to Metrology	2	0	2
MAC 121	Intro to CNC	2	0	2
MAC 122	CNC Turning	1	3	2
MAC 132	Blueprint Reading/Mach II	1	2	2
MEC 130	Mechanisms	2	2	3
MEC 145	Mfg Materials I	2	3	3
MEC 151	Mechanical Mfg Systems	1	3	2
MEC 180	Engineering Materials	2	3	3
WBL 110	World of Work	1	0	1
WBL 111	Work-Based Learning I (and)	0	0	1
WBL 115	Work-Based Learning Seminar I	1	0	1

(S) – Designates recommended classes for students starting in spring of the first year