ELECTRICAL TECHNOLOGY

(Wallace Campus)

(Easterling Correctional Facility-Electrical Technology Certificates Only)

The Electrical Technology program prepares individuals to apply technical knowledge and skills to install, operate, maintain, and repair electric apparatus and systems such as residential, commercial, and industrial electric-power wiring; and DC and AC motors, controls, and electrical distribution panels. Includes instruction in the principles of electronics and electrical systems, wiring, power transmission, safety, industrial and household appliances, job estimation, electrical testing and inspection, and applicable codes and standards.

DEGREE CURRICULUM (Wallace Campus)

Cours	it Hours		
Area	I:	Written and Oral Communications	6
ENG	101	English Composition I	3
SPH	106	Fundamentals of Oral Communication OR	
SPH	107	Fundamentals of Public Speaking	3
Area	II:	Humanities and Fine Arts	3
		Humanities/Fine Arts Elective	3
Area III:		Natural Sciences, Mathematics, and	
		Computer Science	10
CIS	146	Microcomputer Applications	3
MTH	100	Intermediate College Algebra	3
PHS	112	Physical Science II	4
Area	History, Social and Behavioral Sciences	3	
PSY	200	Psychology	3
Area	V:	Career and Technical Courses	
Requi	ired Or	rientation Courses	
ORI	101	Orientation to College OR	
ORI	105	Orientation and Student Success	1-3
ORI	104	WorkKeys® Assessment and Advisement	1
Requi	ired Fi	eld of Concentration Courses	
WKO	110	NCCER Core	3
ELT		DC Fundamentals OR	
INT	101	DC Fundamentals	3
ELT	109	AC Fundamentals OR	
	103	AC Fundamentals	3
ELT	221	Electronics for Electricians	3
ELT	231	Introduction to Programmable Logic Controllers	3
ELT	209	Motor Controls I OR	
INT	113	Industrial Motor Controls I	3
ELT	212	Motor Controls II OR	
INT	213	Industrial Motor Controls II	3
	110	Wiring Methods	3
	114	Residential Wiring I	3 3
	115	Residential Wiring II	
	117	AC/DC Machines	3
ELT	118	Commercial/Industrial Wiring I	3 3 3 3
ELT	132	Commercial/Industrial Wiring II	3
ELT	224	Security and Alarm Systems	3
ELT	225	Smart House Wiring	3
WKO	100	Workplace Skills	
		Total Option Credits	50-52
		Total Credits for Degree	72-74

Electrical Technology Associate in Applied Science Degree Suggested Course Sequence

SEMESTER	SECO	ND SEMESTER	THIR	D SEMESTER		
110	ELT	109 or INT 103	ELT	115		
146	ELT	114	ELT	118		
108 or INT 101	ELT	117	ELT	209 or INT 11.		
110	MTH	100	ELT	231		
101	Humar	ities/Fine Arts				
101 or 105*	Electiv	e				
FOURTH SEMESTER		FIFTH SEMESTER				
132	ELT	221				
212 or INT 213	ELT	224				
225	ORI	104				
112	SPH	106 or 107				
200	WKO	106				
RT CERTIFIC	ATE (TIRRICULUN	r			
CTRICAL TE		einneellen	1			
	110 146 108 or INT 101 110 101 or 105* TH SEMESTER 132 212 or INT 213 225 112 200 RT CERTIFIC	110 ELT 146 ELT 108 or INT 101 ELT 110 MTH 101 Humar 101 or 105* Elective TH SEMESTER FIFTH 132 ELT 212 or INT 213 ELT 212 ORI 112 SPH 200 WKO RT CERTIFICATE (Content of the second	110 ELT 109 or INT 103 146 ELT 114 108 or INT 101 ELT 117 110 MTH 100 101 Humanities/Fine Arts 101 or 105* Elective TH SEMESTER 132 ELT 221 212 or INT 213 ELT 224 225 ORI 104 112 SPH 106 or 107 200 WKO 106	110 ELT 109 or INT 103 ELT 146 ELT 114 ELT 108 or INT 101 ELT 117 ELT 110 MTH 100 ELT 101 Humanities/Fine Arts ELT 101 or 105* Elective Elective TH SEMESTER 132 ELT 221 212 or INT 213 ELT 224 225 ORI 104 112 SPH 106 or 107		

(Wallace Campus and Easterling Correctional Facility)

Course	Credit Hours							
Area V:	Career and Technical Courses							
Core Electrical Technology Course Requirements								
ELT 108	DC Fundamentals OR							
INT 101	DC Fundamentals	3						
ELT 109	AC Fundamentals OR							
INT 103	AC Fundamentals	3						
ELT 110	Wiring Methods	3						
ELT 221	Electronics for Electricians	3						
	Total Core Technical Credits	12						

After completing the Core Technical Course Requirements, students may choose from the following concentrations:

INDUSTRIAL ELECTRICITY CONCENTRATION (IAI)ELT 209Motor Controls I ORINT 113Industrial Motor Controls ISELT 117AC/DC MachinesELT 212Motor Controls II ORINT 213Industrial Motor Controls IISELT 231Industrial Motor Controls IISELT 231Industrial Motor Controls IISELT 231Introduction to Programmable Logic Controllers

ELT231Introduction to Programmable Logic Controllers3Total Concentration Credits12Total Credits for Short Certificate24

RESIDENTIAL AND COMMERCIAL WIRING CONCENTRATION (IAR)

Cour	dit Hours		
ELT	114	Residential Wiring Methods I	3
ELT	115	Residential Wiring Methods II	3
ELT	118	Commercial/Industrial Wiring Method I	3
ELT	245	Electrical Grounding Systems	3
		Total Concentration Credits	12
	24		