



**Electrical Technology – Automated Industrial Controls Technician**  
**Associate in Applied Science degree**

Program Coordinator: Antonio Barber

E-mail: [antonio.barber@kctcs.edu](mailto:antonio.barber@kctcs.edu)

Phone: 859-246-6720

Program Website: <https://bluegrass.kctcs.edu/education-training/program-finder/electrical-technology.aspx>

Student Name:

Student ID:

*Students must meet college readiness benchmarks as identified by the Council on Postsecondary Education or remedy the identified skill deficiencies.*

First Semester	Credit Hours	Term	Grade	Prerequisites	Notes
ELT 110 Circuits I	5			Math placement for MAT 126 or higher	
ELT 114 Circuits II	5			ELT 110 with grade of C or greater	Technical Core
MAT 126 Technical Algebra and Trigonometry or higher level Quantitative Literacy course	3				
EET 250 National Electric Code	4				
<b>Total Semester Credit Hours</b>	<b>17</b>				

Second Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
EET 264 Rotating Machinery	2			ELT 110, ELT 114 Coreq: EET 265	
EET 265 Rotating Machinery Lab	2			ELT 110 & 114 Coreq: EET 264	
EET 270 Electrical Motor Controls I	2			ELT 110, Coreq EET 271	
EET 271 Electrical Motor Controls I Lab	2			ELT 110, Coreq EET 270	
FPX 100 Fluid Power	3			Coreq: FPX 101	
FPX 101 Fluid Power Lab	2			Coreq: FPX 100	
ENG 101 Writing 1	3				
<b>Total Semester Credit Hours</b>	<b>16</b>				

Third Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
EET 272 Electrical Motor Control II	2			EET 270, Coreq: EET 273	
EET 273 Electrical Motor Control II Lab	2			EET 270, Coreq: EET 272	
EET 276 Programmable Logic Controllers	2			ELT 110, EET 270, EET 272, Coreq: EET 277	
EET 277 Programmable Logic Controllers Lab	2			ELT 110, EET 271, EET 273, Coreq: EET 276	
Natural Sciences course	3				
Technical Elective	4				See list on back.
<b>Total Semester Credit Hours</b>	<b>15</b>				

Fourth Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
EET 127 Electrical Technology Capstone	1			Consent of Instructor	Online class
Technical Elective	4				See list on back.
Heritage or Humanities course	3				
Oral Communications course	3				
Social and Behavioral Sciences course	3				
Digital Literacy OR If Digital Literacy is satisfied by test, then Technical Elective	3				
<b>Total Semester Credit Hours</b>	<b>17</b>				
<b>Total Degree Credit Hours</b>	<b>65</b>				

- Graduation Requirements:
- 25% or more of Total Degree Credit Hours must be earned at BCTC
  - Cumulative GPA must be 2.0 or higher

Advisor Name \_\_\_\_\_

Advisor Contact \_\_\_\_\_

### Additional Information

Students must complete MAT 065 or 075 or demonstrate an equivalent placement level before enrolling in an ELT class.

Students must earn a grade of C or better in all EET and ELT courses and in the digital literacy course.

Courses listed in 3<sup>rd</sup> and 4<sup>th</sup> semester can be taken in any order due to availability. It is recommended that some General Education and Technical Electives be taken in the summer to ease load and schedule during the Fall and Spring semesters.

### Technical Electives

Course	Cr. Hrs.	Prerequisites
EET 150 Transformers AND EET 151 Transformers Lab	2 1	ELT 110 with a grade of C or better, Coreq: EET 151 Coreq: EET 150
EET 154 Electrical Construction I AND EET 155 Electrical Construction I Lab	2 2	Coreq: EET 155 Coreq: EET 154
ELT 260 Robotics and Industrial Automation	5	Consent of Instructor
Other courses approved by the Electrical Program Coordinator	1-10	

### Embedded Credentials

Credential	Title	Requirements	Total Credit Hours
Diploma	Electrical Technology Motor Controls Electrician Track	EET 127, EET 250, EET 264, EET 265, EET 270, EET 271, EET 272, EET 273, EET 276, EET 277, ELT 110, ELT 114, FPX 100, FPX 101, ENG 101, MAT 116 OR MAT 126 OR higher level Quantitative Reasoning course, Digital Literacy or If Digital Literacy is satisfied by test then Technical Elective, Technical Electives (3 – 7 credit hours)	48 – 52
Certificate	Electrician Trainee Level I	ELT 110, Technical Electives (3 credit hours)	8
Certificate	Electrician Trainee Level II	ELT 110, Technical Electives (8 credit hours)	13

- Diploma Requirements:**
- 25% or more of Total Diploma Credit Hours must be earned at BCTC
  - Cumulative GPA must be 2.0 or higher

- Certificate Requirements:**
- 25% or more of Total Certificate Credit Hours must be earned at BCTC
  - Grade of C or higher in each course required for certificate