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**Electrical Technology – Automated Industrial Controls Technician**

**Associate in Applied Science degree**

**Program Coordinator: Antonio Barber E-mail:** [**antoniob.barber@kctcs.edu**](mailto:antoniob.barber@kctcs.edu) **Phone: 859-246-6720**

**Program Website:** [**https://bluegrass.kctcs.edu/education-training/program-finder/electrical-technology.aspx**](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.***

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| **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 |  |  |  |  |
| **Total Semester Credit Hours** | **17** |  |  |  | |

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| **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 |  |  |  |  |
| **Total Semester Credit Hours** | **16** |  |  |  | |

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| **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. |
| **Total Semester Credit Hours** | **15** |  |  |  | |

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| **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 |  |  |  |  |
| **Total Semester Credit Hours** | **17** |  |  |  | |
| **Total Degree Credit Hours** | **65** |  |  |  | |

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| * **25% or more of Total Degree Credit Hours must be earned at BCTC** * **Cumulative GPA must be 2.0 or higher** |

**Graduation Requirements:**

**Advisor Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Advisor Contact \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **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 3rd and 4th 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. |

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| **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 |  |

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| **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 |

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

**Diploma Requirements:**

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

**Certificate Requirements:**