**Engineering and Electronics Technology –**

**Robotics and Automation Technician Certificate**

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**Program Coordinator: Kevin Jensen E-mail:** **kevin.jensen@kctcs.edu** **Phone: 859-246-6681**

**Program Website:** [**https://bluegrass.kctcs.edu/education-training/program-finder/engineering-electronics-technology.aspx**](https://bluegrass.kctcs.edu/education-training/program-finder/engineering-electronics-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 |  |
| ELT 265 Applied Fluid Power | 3 |  |  |  | See note below. |
| **Total Semester Credit Hours** | **13**  |  |  |  |

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| **Second Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| ELT 120 Digital I | 3 |  |  |  | Can be taken in first semester if schedule permits |
| EET 270 Motor Controls I  | 2 |  |  | ELT 110 with C or greater, Coreq: EET 271 |  |
| EET 271 Motor Controls Lab  | 2 |  |  | ELT 110 with C or greater, Coreq: EET 270 |  |
| **Total Semester Credit Hours** | **7** |  |  |  |

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| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| ELT 260 Robotics and Industrial Automation | 5 |  |  |  |  |
| EET 276 Programmable Logic Controllers  | 2 |  |  | EET 270 with C or greater, Coreq: EET 277 |  |
| EET 277 Programmable Logic Controllers Lab  | 2 |  |  | EET 270 with C or greater, Coreq: EET 276 |  |
| **Total Semester Credit Hours** | **9** |  |  |  |
| **Total Certificate Credit Hours** | **29**  |  |  |  |

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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 the certificate**
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**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.If ELT 265 Applied Fluid Power is not available, FPX 100/101 Fluid Power and Lab may be substituted with the approval of the Engineering and Electronics Technology Program Coordinator. |

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| **Embedded Credentials** |
| Credential | Title | Requirements | Total Credit Hours |
| Certificate | Electronics Tester | ELT 110, ELT 114, ELT 120 | 13 |