**Engineering and Electronics Technology –**

**Robotics and Automation Technician Certificate**

**Certi**

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**Program Coordinator: Kevin Jensen E-mail:** [**kevin.jensen@kctcs.edu**](mailto:kevin.jensen@kctcs.edu) **Phone: 859-246-6681**

[**Program Website**](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 |  |  | MAT 065 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 |  |  | MAT 065 or higher | 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 |  |  | Consent of instructor | IMT200 substituted for ELT265 See note on below |
| EET 276 Programmable Logic Controllers | 2 |  |  | EET 270 & 271 with C or greater, Coreq: EET 277 |  |
| EET 277 Programmable Logic Controllers Lab | 2 |  |  | EET 270 & 271 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** |

**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.  If ELT 260 Robotics and Industrial Automation is not available IMT200 Industrial Robotics and Robotic Maintenance may be substituted with the approval of the Engineering and Electronics Technology Program Coordinator. This may require an additional 1 credit hour taken to make up the credit hour difference between ELT 260 and IMT 200 to meet the minimum 29 credit hour requirement for the certificate. |

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