**Engineering and Electronics Technology (1503997019)**

**Robotics and Automation (150399705) Credential (AAS)**

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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 need to be at KCTCS placement levels for all courses***

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| **First Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| ELT110 Circuits I  | 5 |  |  | math placement level see instructions below \*\*\* |
| ELT114 Circuits II | 5 |  |  |  |
| MAT126 Technical Algebra and Trig.  | 3 |  |  |  |
| BRX120 Blueprint Reading | 3 |  |  |  |
| **Total Semester Credit Hours** | **16** |  |  |  |

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| **Second Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| ELT210 Devices I | 4 |  |  | Prerequisite Circuits I |
| ELT214 Devices II | 4 |  |  | not a required class, can be used as tech elective  |
| EET270 Motor Controls I **and**  | 2 |  |  | Prerequisite Circuits I |
| EET271 Motor Controls Lab  | 2 |  |  |  |
| General Education Class | 6 |  |  |  |
| **Total Semester Credit Hours** | **18** |  |  |  |

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| **Third Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| ELT120 Digital I | 3 |  |  |  |
| ELT220 Digital II | 3 |  |  | not a required class, can be used as tech elective |
| EET276 Programmable Logic Controllers **and**  | 2 |  |  | Prerequisite Motor Controls I |
| EET277 Programmable Logic Controllers Lab  | 2 |  |  |  |
| CIT105 Computer Fundamentals (Digital Lit.) or | 3 |  |  |  |
| General Education Classes  | 6 |  |  |  |
| **Total Semester Credit Hours** | **19** |  |  |  |

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| **Fourth Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| ELT289 Engineering and Electronics Tech Capstone  | 1 |  |  | This is an on-line class |
| ELT260 Robotics and Industrial Automation  | 5 |  |  | Class not taught each semester need to be taken when available. |
| CMM132 CAD/CAM/CNC | 3 |  |  |  Class not taught each semester need to be taken when available. |
| General Education Classes | 6 |  |  |  |
| **Total Semester Credit Hours** | **18** |
| **Total Required Credits** | **71** |

***Note: 25% of Total Program Credit Hours must be earned at Bluegrass Community and Technical College.***

**Advisor Name: Advisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Student Name: Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Special Instructions:** |
| The General Education classes should be taken throughout the four semesters and not piled up into one or two semesters. General Education Course Areas (one from each area):Social/Behavioral SciencesHeritage/HumanitiesWritten Communication (ENG 101)Natural Sciences (PHY 171 recommended but any natural science course will apply)Oral CommunicationsThe Technical electives should be taken throughout the four semesters and not left to the end due to availability. **Summer semester attendance Is HIGHLY recommended** for taking General Education Classes and Technical elective classes to ease loading and scheduling during Fall and Spring Semesters.\*\*\* MAT065 or MAT075, ACT MATH ≥ 18, COMPASS Alg ≥ 31, WBSTQ ≥ 275, KMATH ≥ 18 |