**Engineering and Electronics Technology**

**Robotics and Automation Diploma (1503994039)**

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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**](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 below \*\*\* |
| ELT114 Circuits II | 5 |  |  |  |
| MAT126 Technical Algebra and Trig. | 3 |  |  |  |
| CIT105 Computer Fundamentals (Digital Lit.) | 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 |  |  | Recommended Elective |
| EET270 Motor Controls I **AND** | 2 |  |  | Prerequisite Circuits I |
| EET271 Motor Controls Lab | 2 |  |  |  |
| BRX120 Blueprint Reading | 3 |  |  | Gen. Ed. if BRX 120 requirement met |
| **Total Semester Credit Hours** | **15** |  |  |  |

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| **Third Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| ELT120 Digital I | 3 |  |  |  |
| ELT220 Digital II | 3 |  |  | Recommended Elective |
| EET276 Programmable Logic Controllers **AND** | 2 |  |  | Prerequisite Motor Controls I |
| EET277 Programmable Logic Controllers Lab | 2 |  |  |  |
| General Education Area 1 | 3 |  |  |  |
| **Total Semester Credit Hours** | **13** |  |  |  |

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| **Fourth Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| ELT289 Engineering and Elect. Tech Capstone | 1 |  |  | This is an on-line class |
| ELT260 Robotics and Industrial Automation | 5 |  |  | Class should be taken when available |
| CMM132 CAD/CAM/CNC | 3 |  |  | Class should be taken when available |
| COE199 Cooperative Education, or  COED198 Practicum | 1 |  |  |  |
| Technical Elective | 1 |  |  | Recommend FPX 100/101 |
| **Total Semester Credit Hours** | **11** |  |  |  |
| **Total Credential Hours** | **55** |  |  |  |

***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.  **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.  General Education:  Area 1: Written Communication, Oral Communications, OR Humanities/Heritage  \*\*\* MAT065 or MAT075, ACT MATH ≥ 18, COMPASS Alg ≥ 31, WBSTQ ≥ 275, KMATH ≥ 18 |