**Engineering and Electronics Technology (1503997019)**

**Communications Track (150399708) Credential (AAS)**

****

**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***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 |  |  |  |
| CIT105 Computer Fundamentals (Digital Lit.) | 3 |  |  |  |
| BRX120 Blueprint Reading | 3 |  |  |  |
| **Total Semester Credit Hours** | **19** |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Second Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| ELT210 Devices I | 4 |  |  | Prerequisite Circuits I |
| ELT214 Devices II | 4 |  |  |  |
| EET270 Motor Controls I **and** | 2 |  |  | Not Required for Electronics Trach but recommended |
| EET271 Motor Controls Lab | 2 |  |  | Not Required for Electronics Trach but recommended |
| BRX120 Blueprint Reading | 3 |  |  | Gen. Ed. or Technical Elective if BRX 120 require met |
| General Education Class | 3 |  |  |  |
| **Total Semester Credit Hours** | **18** |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Third Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| ELT120 Digital I | 3 |  |  |  |
| ELT220 Digital II | 3 |  |  |  |
| EET276 Programmable Logic Controllers **and** | 2 |  |  | Not Required for Electronics Trach but recommended |
| EET277 Programmable Logic Controllers Lab | 2 |  |  | Not Required for Electronics Trach but recommended |
| General Education Classes | 6 |  |  | Tech electives may be substituted in |
| **Total Semester Credit Hours** | **16** |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Fourth Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| ELT289 Engineering and Electronics Tech Capstone | 1 |  |  | This is an on-line class |
| General Education Class | 6 |  |  |  |
| Technical Electives | 5 |  |  | As many of the Technical electives as can be taken in earlier semesters should be.  9 hours may not be available the last semester |
| ELT240 Communications Electronics | 6 |  |  | **This class is not currently taught at BCTC** |
| **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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |
| --- |
| **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 Sciences  Heritage/Humanities  Written Communication (ENG 101)  Natural Sciences (PHY 171 recommended but any natural science course will apply)  Oral Communications  The 9 hours of Technical electives should be taken throughout the four semesters and not left to the end due to availability. It is Highly recommended using EET 270, 271, 276, and 277 to meet 8 hours of technical electives due to the use of Programmable Logic Control in Industry.  **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 |