



**Engineering and Electronics Technology (1503997019)**  
**Industrial Track (1503997019) Credential (AAS)**

Program Coordinator: Kevin Jensen

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Program Website: [https://bluegrass.kctcs.edu/academics/programs\\_of\\_study/engineering\\_and\\_electronics\\_technology.aspx](https://bluegrass.kctcs.edu/academics/programs_of_study/engineering_and_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         |      |       |   |
| BRX120 Blueprint Reading           | 3         |      |       |   |
| <b>Total Semester Credit Hours</b> | <b>16</b> |      |       |   |

| Second Semester                    | Credits   | Term | Grade | Prereqs/Notes   |
|------------------------------------|-----------|------|-------|---|
| ELT210 Devices I                   | 4         |      |       | Prerequisite Circuits I                               |
| ELT214 Devices II                  | 4         |      |       |   |
| EET270 Motor Controls I <u>and</u> | 2         |      |       | Prerequisite Circuits I                               |
| EET271 Motor Controls Lab          | 2         |      |       |   |
| BRX120 Blueprint Reading           | 3         |      |       | Gen. Ed. or Technical Elective if BRX 120 require met |
| General Education course           | 3         |      |       |   |
| <b>Total Semester Credit Hours</b> | <b>18</b> |      |       |   |

| Third Semester                                   | Credits   | Term | Grade | Prereqs/Notes                             |
|--|-----------|------|-------|---|
| ELT120 Digital I                                 | 3         |      |       |   |
| ELT220 Digital II                                | 3         |      |       |   |
| EET276 Programmable Logic Controllers <u>and</u> | 2         |      |       | Prerequisite Motor Controls I             |
| EET277 Programmable Logic Controllers Lab        | 2         |      |       |   |
| General Education Classes                        | 6         |      |       | If needed or Tech elective substituted in |
| <b>Total Semester Credit Hours</b>               | <b>16</b> |      |       |   |

| 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                            | 9         |      |       | As many of the Technical electives as can be taken in earlier semesters should be. 9 hours may not be available the last semester |
| CIT105 Computer Fundamentals (Digital Lit.) or   | 3         |      |       | If Digital literacy not completed earlier   |
| <b>Total Semester Credit Hours</b>               | <b>19</b> |      |       |   |
| <b>Total Required Credits</b>                    | <b>69</b> |      |       |   |

*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.

**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  $\geq$  18, COMPASS Alg  $\geq$  31, WBSTQ  $\geq$  275, KMATH  $\geq$  18