**Engineering and Electronics Technology – Electronics Track**

**Associate in Applied Science degree**

****

**EFFECTIVE FALL 2019**

**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 must meet college readiness benchmarks as identified by the Council on Postsecondary Education or remedy the identified skill deficiencies.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **First Semester** | **Credit Hours** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| ELT 110 Circuits I  | 5 |  |  | Math placement for MAT 126 or higher |  |
| ELT 114 Circuits II | 5 |  |  | ELT 110 with grade of C or greater |  |
| CIT 105 Introduction to Computers or CAD 100 Introduction to Computer Aided Design | 3 |  |  |  | See Additional Information (on back) about CAD 100. |
| MAT 126 Technical Algebra and Trigonometry or higher level Quantitative Literacy course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **16** |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Second Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| ELT 210 Devices I | 4 |  |  | ELT 110 with grade of C or greater |  |
| ELT 214 Devices II | 4 |  |  | ELT 210 with grade of C or greater |  |
| Technical Electives | ~~4~~ |  |  |  | EET 270 and EET 271 Motor Controls I and Lab are strongly recommended. |
| PHY 171 Applied Physics or Natural Sciences course  | 3 – 4 |  |  |  |  |
| **Total Semester Credit Hours** | **15 – 16** |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| ELT 120 Digital I | 3 |  |  |  |  |
| ELT 220 Digital II | 3 |  |  | ELT 120 with grade of C or greater |  |
| Technical Electives | 4 |  |  |  | EET 276 and EET 277 Programmable Logic Controllers and Lab are strongly recommended. |
| ENG 101 Writing I | 3 |  |  |  |  |
| Social and Behavioral Sciences course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **16** |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fourth Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| ELT 289 Engineering and Electronics Tech Capstone | 1 |  |  | ELT 120 and 210 | This is an online class. |
| Technical Electives  | 5 |  |  |  |  |
| BRX 120 Basic Blueprint Reading OR CAD 100 Intro to Computer Aided Design OR CAD 103 CAD Fundamentals | 3 – 4 |  |  |  | See Additional Information (on back) about CAD 100. |
| Heritage or Humanities course | 3 |  |  |  |  |
| Oral Communications course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **15 – 16** |  |  |  |  |
| **Total Degree Credit Hours** | **62 – 64** |

|  |
| --- |
| * **25% or more of Total Degree Credit Hours must be earned at BCTC**
* **Cumulative GPA must be 2.0 or higher**
 |

**Graduation Requirements:**

**Advisor Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Advisor Contact \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |
| --- |
| **Additional Information** |
| Students must complete MAT 065 or 075 or demonstrate an equivalent placement level before enrolling in an ELT class.General Education courses (math, natural sciences, writing, social and behavioral sciences, oral communications, heritage or humanities) can be taken in any order. It is recommended that math be taken in the first semester if possible.CIT 105 or CAD 100 can be taken in any semester. BRX 120 or CAD 100 or CAD 103 can be taken in any semester.Students who take CAD 100 to meet the Digital Literacy requirement must take an additional 3 credit hours of technical electives in place of the CAD 100/BRX 120 requirement.Technical Electives can be any EET, ELT, IMT, CIT, ISM, CAD, ICT, MFG, PLW, WLD or any other courses approved by the Engineering and Electronics Technology Program Coordinator. EET 270, 271, 276, and 277 are strongly recommended to meet the Technical Electives requirements due to the use of Programmable Logic Control in industry. |

|  |
| --- |
| **Embedded Credentials** |
| Credential | Title | Requirements | Total Credit Hours |
| Certificate | Electronics Technician | ELT 110, ELT 114, ELT 120, ELT 210, ELT 214, ELT 220 | 24 |
| Certificate | Electronics Tester | ELT 110, ELT 114, ELT 120 | 13 |

|  |
| --- |
| * **25% or more of Total Certificate Credit Hours must be earned at BCTC**
* **Grade of C or higher in each course required for certificate**
 |

**Certificate Requirements:**