[Engineering and Electronics Technology – Industrial Electronic Track](https://bluegrass.kctcs.edu/education-training/program-finder/engineering-electronics-technology.aspx)

Diploma

Coordinator: John Jors ([john.jors@kctcs.edu](mailto:john.jors@kctcs.edu)) 859-246-6718

Student Name: Student ID:

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

Semester 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| ELT 110 Circuits I | 5 |  |  |  |  |
| ELT 114 Circuits II | 5 |  |  | ELT 110 |  |
| Digital Literacy | 3 |  |  |  | See Additional Information |
| MAT 126 Tech Algebra and Trig OR  higher-level Quantitative Literacy course | 3 |  |  | KCTCS Placement Policy |  |
| Total Semester Credit Hours | 16 |  |  |  |  |

Semester 2

|  |  |  |  |  |  |
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| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| ELT 210 Devices I | 4 |  |  | ELT 110 |  |
| ELT 214 Devices II | 4 |  |  | ELT 210 |  |
| EET 270 Motor Controls I AND  EET 271 Motor Controls Lab | 4 |  |  | ELT 110 |  |
| BRX 120 Basic Blueprint Reading OR  CAD 100 Intro to Computer Aided Design | 3 – 4 |  |  |  | See Additional Information |
| Total Semester Credit Hours | 15 – 16 |  |  |  |  |

Semester 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| ELT 120 Digital I | 3 |  |  |  | Online Only |
| ELT 220 Digital II | 3 |  |  | ELT 120 | Online Only |
| EET 276 Programmable Logic Cont. AND  EET 277 Programmable Logic Cont. Lab | 4 |  |  | EET 270 |  |
| Technical Elective | 3 |  |  |  |  |
| Written Communication OR  Oral Communications | 3 |  |  |  |  |
| Total Semester Credit Hours | 16 |  |  |  |  |

Semester 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| ELT 289 Eng. & Elec. Tech. Capstone | 1 |  |  | ELT 120 and 210 | Online Only |
| Technical Elective | 6 |  |  |  |  |
| COE 199 Cooperative Education OR  COED 198 Practicum | 1 – 2 |  |  |  | See Additional Information |
| Total Semester Credit Hours | 8 – 9 |  |  |  |  |
| Total Diploma Credit Hours | 55 – 57 |  |  |  |  |

**Graduation Requirements:**

* 25% or more of Total Diploma Credit Hours must be earned at BCTC.
* Cumulative GPA must be 2.0 or higher.

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

**Additional Information**

* Students must complete MAT 065 or demonstrate an equivalent placement level before enrolling in an ELT class.
* Students must earn a grade of C or better in all technical courses and a cumulative 2.0 GPA to continue in the Engineering and Electronics Technology Program.
* General Education courses (math, writing, or oral communications) can be taken in any order. It is recommended that math be taken in the first semester if possible.
* Digital Literacy, BRX 120 or CAD 100 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 requirements.
* For COE 199, the completion of at least 12 credit hours in the Associate in Applied Science Degree, diploma, or certificate program of study, and/or marketable skills in the area in which the student is enrolled in, and minimum cumulative grade point average (GPA) of 2.
* For COED 198, consent of the instructor is a prerequisite.
* 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.

**Embedded Credentials**

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| --- | --- | --- | --- |
| Credential | Title | Requirements | Total Cr. 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 |
| Certificate | Industrial Electronics Technician I | ELT 110, ELT 114, ELT 120, ELT 276, ELT 277 | 17 |
| Certificate | Industrial Electronics Technician II | ELT 110, ELT 114, ELT 120, ELT 210, ELT 214, ELT 220, EET 270, EET 271, EET 276, EET 277 | 32 |

**Certificate Requirements:**

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

*Reviewed by: John Jors Effective Term: Spring 2021*

*Review Date: 11-15-2021*