[Engineering and Electronics Technology – Communications 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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| ELT 210 Devices I | 4 |  |  | ELT 110 |  |
| ELT 214 Devices II | 4 |  |  | ELT 210 |  |
| Technical Electives | 4 |  |  |  | EET 270/271 Recommended |
| Written Communication OR  Oral Communications | 3 |  |  | KCTCS Placement Policy |  |
| Total Semester Credit Hours | 15 |  |  |  |  |

Semester 3

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| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| ELT 120 Digital I | 3 |  |  |  | Online Only |
| ELT 220 Digital II | 3 |  |  | ELT 120 | Online Only |
| Technical Electives | 4 |  |  |  | EET 276/277 Recommended |
| BRX 120 Basic Blueprint Reading OR  CAD 100 Intro to Computer Aided Design | 3 – 4 |  |  |  | See Additional Information |
| Total Semester Credit Hours | 13 – 14 |  |  |  |  |

Semester 4

|  |  |  |  |  |  |
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| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| ELT 240 Communications Electronics | 6 |  |  | ELT 220 and ELT 214 | Online Only |
| ELT 289 Eng. & Elec. Tech. Capstone | 1 |  |  | ELT 120 and 210 | Online Only |
| Technical Elective | 3 |  |  |  |  |
| COE 199 Cooperative Education OR,  COED 198 Practicum | 1 – 2 |  |  |  | See Additional Information |
| Total Semester Credit Hours | 11 – 12 |  |  |  |  |
| 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.
* 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. 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**

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| --- | --- | --- | --- |
| Credential | Title | Requirements | Total Cr. Hours |
| Certificate | Communication Technician | ELT 110, ELT 114, ELT 120, ELT 210, ELT 214, ELT 240 | 27 |
| 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 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 2022*

*Review Date: 11-15-2021*