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

Associate in Applied Science

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 |  |
| EET 270 Motor Controls I AND  EET 271 Motor Controls I Lab | 4 |  |  | ELT 110 |  |
| PHY 171 Applied Physics | 3 – 4 |  |  |  |  |
| 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 270/271 |  |
| ENG 101 Writing I | 3 |  |  | KCTCS Placement Policy |  |
| Social and Behavioral Sciences course | 3 |  |  |  |  |
| Total Semester Credit Hours | 16 |  |  |  |  |

Semester 4

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| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| ELT 289 Eng. & Elec. Tech. Capstone | 1 |  |  | ELT 120 and 210 | Online Only |
| BRX 120 Basic Blueprint Reading OR  CAD 100 Intro to Computer Aided Design | 3 – 4 |  |  |  | See Additional Information |
| Technical Elective | 5 |  |  |  |  |
| Heritage or Humanities course | 3 |  |  |  |  |
| Oral Communications course | 3 |  |  |  |  |
| Total Semester Credit Hours | 15 – 16 |  |  |  |  |
| Total Degree Credit Hours | 62 – 64 |  |  |  |  |

**Graduation Requirements:**

* 25% or more of Total Degree 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, natural sciences, writing, social and behavioral sciences, oral communications, heritage or humanities) and Digital Literacy can be taken in any order. It is recommended that math be taken in the first semester if possible.
* 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.
* 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 2022*

*Review Date: 11-2-2021*