[Computer Engineering Technology](https://bluegrass.kctcs.edu/education-training/program-finder/computer-engineering-technology)\*

Associate in Applied Science

Coordinator: Robert Chirwa (robert.chirwa@kctcs.edu) 859-246-6298

Student Name: Student ID:

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

*\*Pending approval from the Southern Accreditation of Schools and Colleges*

First Summer Semester (Should be taken prior to first semester)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| CIT 105 Introduction to Computers  | 0-3 |  |  |  |  |
| Total Semester Credit Hours | 0 – 3 |  |  |  |  |

Semester 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| CIT 111 Computer Hardware and Software | 4 |  |  |  | Take in first semester |
| CIT 120 Computational Thinking | 3 |  |  | Coreq: MAT 126 or higher | Take in first semester |
| ENG 101 Writing I | 3 |  |  |  |  |
| Social and Behavioral course | 3 |  |  |  | Take in first semester |
| MAT 155 Trigonometry  | 3 |  |  | Prereq: MAT 150  | Or MAT 171 Precalculus |
| Total Semester Credit Hours | 16 |  |  |  |  |

Semester 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| ENG 102 Writing II | 3 |  |  | Prereq: ENG 101 |  |
| Heritage course | 3 |  |  |  | May also fulfill Cultural Studies  |
| CHE 170 General College Chemistry | 4 |  |  | Prereq: ACT 22 or MAT 150 |  |
| CS 115 Intro. to Computer Programming | 3 |  |  |  |  |
| MAT 170 Elementary Calc & Its Applications | 3 |  |  | Prereq: MAT 150 |  |
| Total Semester Credit Hours | 16 |  |  |  |  |

Second Summer Semester

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| CIT 170 Database Design Fundamentals | 3 |  |  | Prereq: CIT 105 & MAT 126 |  |
| Oral Communications | 3 |  |  |  |  |
| Total Semester Credit Hours | 6 |  |  |  |  |

Semester 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| STA 296 Statistical Methods and Motivations | 3 |  |  | Prereq: MAT 170 |  |
| CS 215 Introduction to Program Design Abstraction and Problem Solving | 4 |  |  | Prereq: CS 115 |  |
| Humanities | 3 |  |  |  | May also fulfill Cultural Studies |
| ELT 110 Circuits I | 5 |  |  | Prereq: MAT 065 |  |
| Total Semester Credit Hours | 15 |  |  |  |  |

Semester 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| PHY 201 General Physics | 4 |  |  | Prereq: MAT 150 |  |
| PHY 202 General Physics Lab | 1 |  |  | Coreq: PHY 201 |  |
| Social Behavioral | 3 |  |  |  | Different Prefix than in semester 1 |
| ELT 120 Digital I | 3 |  |  | Prereq: MAT 065 |  |
| CIT 161 Introduction to Networks | 4 |  |  | Prereq: CIT 111 | OR CIT 160 |
| Total Semester Credit Hours | 15 |  |  |  |  |
| Total Degree Credit Hours | 68 -73 |  |  |  |  |

**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**

A grade of C or higher is required to fulfill degree requirements.

**Embedded Credentials**

|  |  |  |  |
| --- | --- | --- | --- |
| Credential | Title | Requirements | Total Cr. Hours |
| Certificate | A+ Prep | CIT 111 | 4 |
| Certificate | Net+ Prep | CIT 161 | 4 |
| Certificate | Computer Tech Basic | CIT 105, CIT 111, CIT 160 or CIT 161 | 11 |
| Certificate | Informatics Programming | CIT 105, CIT 120, CIT 170, Level I Prog Lang, Level II Prog Lang | 15-16 |
| Certificate | Computer Maintenance  | DL, ELT 110, ELT 120, and CIT 111 | 12-15 |

**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: Robert Chirwa Effective Term: Fall 2021*

 *Review Date: 04-8-2021*