[Computer and Information Technologies – CIT Programming](https://bluegrass.kctcs.edu/education-training/program-finder/computer-information-technology.aspx)

Certificate

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.*

Semester 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| CIT 120 Computational Thinking | 3 |  |  | Coreq: MAT 126 or higher |  |
| Total Semester Credit Hours | 3 |  |  |  |  |

Semester 2 Students must select at least 15 hours of Platform courses. At least 8 hours must be from the primary platform and at least 4 credit hours must be from the secondary platform.

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| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| Level I Programming Language Course | 3 |  |  |  |  |
| Total Semester Credit Hours | 3 |  |  |  |  |

Semester 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| Level II Programming Language Course | 3 |  |  |  |  |
| Level I, II, or III Programming Language Course | 3 |  |  |  |  |
| Total Semester Credit Hours | 6 |  |  |  |  |
| Total Certificate Credit Hours | 12 |  |  |  |  |

**Graduation Requirements:**

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

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

**Approved Level I Programming Language Courses**

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| --- | --- | --- | --- |
| **Course** | **Cr. Hr.** | **Prerequisites** | **Notes** |
| INF 120 Elementary Programming | 3 |  |  |
| CIT 140 JavaScript I | 3 | CIT120 and either CIT150 or CIT155 | Spring only |
| CIT 143 C# I | 3 | CIT 120 |  |
| CIT 144 Python I | 3 | CIT 120 |  |
| CIT 148 Visual Basic I | 3 | CIT 120 | Fall only |
| CIT 149 Java I | 3 | CIT 120 |  |
| CIT 171 SQL I | 3 | CIT 120 and CIT 170 | Fall only |
| CS 115 Intro to Computer Programming | 3 |  |  |

**Approved Level II Programming Language Courses**

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| **Course** | **Cr. Hr.** | **Prerequisites** | **Notes** |
| CIT 238 Android Programming | 3 | CIT 149 or INF 120 |  |
| CIT 249 Java II | 3 | CIT 149 |  |
| CIT 271 SQL II | 3 | CIT 171 |  |
| CS 215 Intro to Program Design, Abstraction, & Problem Solving | 4 | CS 115 |  |
| INF 260 Object Oriented Programming I | 3 | INF 120 |  |

**Approved Level III Programming Language Courses**

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| **Course** | **Cr. Hr.** | **Prerequisites** | **Notes** |
| CIT 277 Programming III: Language | 3 | Consent of Instructor |  |
| CS 216 Intro to Software Engineering | 3 | CS 215 |  |

*Reviewed by: Robert Chirwa Effective Term: Fall 2021*

 *Review Date: 03-10-2021*