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**Computer and Information Technologies – CIT Programming**

**Certificate**

**Program Coordinator: Robert Chirwa E-mail:** **robert.chirwa@kctcs.edu** **Phone: 859-246-6298**

**Program Website:** [**https://bluegrass.kctcs.edu/education-training/program-finder/computer-information-technology.aspx**](https://bluegrass.kctcs.edu/education-training/program-finder/computer-information-technology.aspx)

**Student Name: Student ID:**

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

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| **First Semester** | **Credit****Hours** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CIT 120 Computational Thinking | 3 |  |  | Coreq: MAT 126 or higher |  |
| **Total Semester Credit Hours** | **3** |  |  |  |  |

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

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| **Third Semester** | **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**  |  |  |  |  |

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

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

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| **Approved Level I Programming Language Courses** |
| **Course** | **Cr. Hrs.** | **Prerequisites** | **Notes** |
| INF 120 Elementary Programming | 3 |  |  |
| CIT 140 JavaScript I | 3 | CIT 120 and either CIT 150 or CIT 155 | 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 Introduction to Computer Programming | 3 |  |  |

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| **Approved Level II Programming Language Courses** |
| **Course** | **Cr. Hrs.** | **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**  |
| **Course** | **Cr. Hrs.** | **Prerequisites** | **Notes** |
| CIT 277 Programming III: Language | 3 | Consent of Instructor |  |
| CS 216 – Intro to Software Engineering | 3 | CS 215 |  |