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**Computer & Information Technologies – Programming Track (110101709)**

**Programming Software Development Sequence Credential (AAS)**

**Program Coordinator: Don Halcomb E-mail: don.halcomb@kctcs.edu Phone: 859-246-6289**

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**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 need to be at KCTCS placement levels for all courses***

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| **First Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| CIT 105 – Introduction to Computers | 3 |  |  | Should be taken first semester |
| CIT 120 – Computational Thinking | 3 |  |  | Should be taken first semester |
| Heritage OR Humanities course | 3 |  |  |  |
| ENG 101 – Writing I | 3 |  |  |  |
| MAT 150 College Algebra (Quantitative Reasoning) | 3 |  |  | Should be taken first semester |
| **Total Semester Credit Hours** | **15** |  |  |  |

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| **Second Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| Level I Programming Language Course | 3 |  |  | See list below |
| CIT 111 – Computer Hardware and Software | 4 |  |  |  |
| CIT 160 – Introduction to Networking Concepts | 4 |  |  | OR CIT 161 – Introduction to Networks (4)  Co-requisite with CIT 111 |
| CIT 170 – Database Design Fundamentals | 3 |  |  |  |
| CIT 150 or CIT 155 or CIT 157 | 3 |  |  |  |
| **Total Semester Credit Hours** | **17** |  |  |  |

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| **Third Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| Level II Programming Language Course | 3-4 |  |  | See list below |
| Level I Programming Language Course | 3 |  |  | See list below |
| CIT 180 – Security Fundamentals | 3 |  |  |  |
| CIT 253 - Data Driven Web Pages | 3 |  |  |  |
| Natural Science | 3 |  |  |  |
| **Total Semester Credit Hours** | **15-16** |  |  |  |

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| **Fourth Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| Level II Programming Language Course | 3 |  |  | See list below |
| Level I, II, or III Programming Lang. Course | 3 |  |  | See list below |
| CIT 293 – CIT Employability Skills | 1 |  |  |  |
| CIT Technical Course | 3 |  |  | See list below |
| Social/Behavioral | 3 |  |  |  |
| **Total Semester Credit Hours** | **13** |  |  |  |

***Note: 25% of Total Program Credit Hours must be earned at Bluegrass Community and Technical College.***

**Advisor Name: Advisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Student Name: Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Special Instructions:** |
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| **Approved Electives (if applicable)** | |
| **Level I Programming Language Courses: See list below** | |
| INF 120 | Elementary Programming (3) |
| CIT 140 | JavaScript I (3) |
| CIT 141 | PHP I (3) |
| CIT 142 | C++ I (3) |
| CIT 143 | C# I (3) |
| CIT 144 | Python I (3) |
| CIT 145 | Perl I (3) |
| CIT 146 | Swift I (3) |
| CIT 147 | Programming I: Language (3) |
| CIT 148 | Visual Basic I (3) |
| CIT 149 | Java I (3) |
| CIT 171 | SQL I (3) |
| CS 115 | Intro to Computer Programming (3) |
| **Level II Programming Language Courses: See list below** | |
| INF 260 | Object-Oriented Programming (3) |
| CIT 237 | iOS Programming I (3) |
| CIT 238 | Android Programming I (3) |
| CIT 241 | PHP II (3) |
| CIT 242 | C++ II (3) |
| CIT 243 | C# II (3) |
| CIT 244 | Python II (3) |
| CIT 247 | Programming II: Language (3) |
| CIT 248 | Visual Basic II (3) |
| CIT 249 | Java II (3) |
| CIT 271 | SQL II (3) |
| CS 215 | Introduction to Program Design, ect. (4) |
| **Level III Programming Language Courses: See list below** | |
| CIT 277 | Programming III: Language (3) |
| CIT 278 | Visual Basic III (3) |
| CS 216 | Introduction to Software Engineering (3) |
| **CIT Technical Elective Note** | |
| CIT Course | Not previously taken |
| Other Courses | As approved by CIT Program Coordinator |