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**Computer and Information Technologies – Internet Technologies Track Web Programming and Web Administration Sequences**

**Associate in Applied Science degree**

**Program Coordinator: Robert Chirwa E-mail:** [**robert.chirwa@kctcs.edu**](mailto: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 105 Introduction to Computers | 3 |  |  |  | Should be taken first semester |
| CIT 120 Computational Thinking | 3 |  |  | Coreq: MAT 126 or higher | Should be taken first semester |
| ENG 101 Writing I | 3 |  |  |  |  |
| Heritage or Humanities course | 3 |  |  |  | Should be taken first semester |
| MAT 150 or higher level Quantitative Reasoning course recommended | 3 |  |  |  | MAT 126 Technical Algebra and Trigonometry required |
| **Total Semester Credit Hours** | **15** |  |  |  |  |

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| **Second Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CIT 111 Computer Hardware and Software | 4 |  |  | CIT 105 |  |
| CIT 150 Internet Technologies or CIT 155 Web Page Development or CIT 157 Web Site Design & Production | 3 |  |  | CIT 105 | Select 1 of CIT 150, CIT 155 and CIT 157 |
| CIT 160 Introduction to Networking Concepts or CIT 161 Introduction to Networks | 4 |  |  | Coreq: CIT 111 |  |
| CIT 170 Database Design Fundamentals | 3 |  |  | CIT 105 and (MAT 126 or MAT 085 or higher) |  |
| Approved Level I Programming Language | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **17** |  |  |  |  |

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| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CIT 150 Internet Technologies or CIT 155 Web Page Development or CIT 157 Web Site Design & Production | 3 |  |  | CIT 105 | Select 1 of CIT 150, 155 and 157 not taken in 2nd semester |
| CIT 180 Security Fundamentals | 3 |  |  | CIT 160 or CIT 161 |  |
| Sequence Course 1 | 3 |  |  |  | See list on back |
| Sequence Course 2 | 3 |  |  |  | See list on back |
| Sequence Course 3 | 3 |  |  |  | See list on back |
| **Total Semester Credit Hours** | **15** |  |  |  |  |

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| **Fourth Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CIT 257 Applied Internet Technologies OR CIT 258 Internet Technologies Seminar | 3 |  |  | CIT 253 |  |
| CIT 293 CIT Employability Skills | 1 |  |  | Sophomore standing |  |
| Sequence Course 4 | 3 |  |  |  | See list on back |
| Natural Sciences course | 3 |  |  |  |  |
| Social and Behavioral Sciences course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **13** |  |  |  |  |
| **Total Degree Credit Hours** | **60** |  |  |  |  |

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

**Graduation Requirements:**

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

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| **Additional Information** |
| A grade of C or higher is required in each CIT, CS, IMD and INF course used to fulfill degree requirements. |

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| **Approved Level I Programming Language Courses**  **(must be different from Sequence 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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| **SEQUENCE COURSES** | | | |
| **Web Programming Sequence** | | **Web Administration Sequence** | |
| **3rd Semester** | **Prerequisites** | **3rd Semester** | **Prerequisites** |
| CIT 171 SQL I | CIT 120 or 170 | CIT 219 Internet Protocols | CIT 160 or 161 |
| CIT 253 Data Driven Web Pages: (Topic) | CIT 150 or 155 or 157 and CIT 170 | CIT 217 UNIX/Linux Administration +  CIT 218 UNIX/Linux Net Infrastructure OR  CIT 261 MS Active Directory Services +  CIT 262 MS Server Infrastructure OR  CIT 262 MS Server Infrastructure +  CIT 264 Microsoft Server Management | CIT 111 and CIT 160 or 161 |
| Approved Level I Web Programming Language | See List above |
| **4th Semester** | **Prerequisites** | **4th Semester** | **Prerequisites** |
| Approved Level II Web Programming Language Course | See List below | CIT 255 Web Server Administration | CIT 150 or 155 or 157 and CIT 219 |

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| **Approved Level I Web Programming Language Courses** | | | |
| **Course** | **Cr. Hrs.** | **Prerequisites** | **Notes** |
| CIT 141 PHP 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 |  |

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| **Approved Level II Web Programming Language Courses** | | | |
| **Course** | **Cr. Hrs.** | **Prerequisites** | **Notes** |
| CIT 241 PHP II | 3 | CIT 141 |  |
| CIT 244 Python II | 3 | CIT 144 |  |
| CIT 248 Visual Basic II | 3 | CIT 148 |  |
| CIT 249 Java II | 3 | CIT 149 |  |

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| **Embedded Credentials** | | | | |
| **Credential** | **Title** | **Requirements** | **Total Cr. Hrs.** |
| Certificate | A+ Prep | CIT 111 | 4 |
| Certificate | CIT Fundamentals | CIT 105, CIT 111, CIT 120, CIT 160 or CIT 161, CIT 170, CIT 180, Approved Level I Programming Language | 23 |
| Certificate | Computer Tech Basic | CIT 105, CIT 111, CIT 160 or CIT 161 | 11 |
| Certificate | Computer Technician | CIT 105, CIT 111, CIT 160 or CIT 161, CIT 180 | 14 |
| Certificate | Security+ Prep | CIT 180 | 3 |

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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 certificate** |

**Certificate Requirements:**