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**Computer and Information Technologies – Information Security Specialist**

**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 160 Introduction to Networking Concepts OR CIT 161 Introduction to Networks  | 4 |  |  |  |  |
| **Total Semester Credit Hours** | **4** |  |  |  |  |

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| **Second Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CIT 180 Security Fundamentals | 3 |  |  | CIT 160 or CIT 161 |  |
| Approved Security or Network Elective Courses | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **6**  |  |  |  |  |

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| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CIT 182 Perimeter Defense | 3 |  |  | CIT 180 |  |
| CIT 184 Attacks and Exploits | 3 |  |  | CIT 180 |  |
| Approved Security or Network Elective Courses | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **9**  |  |  |  |  |
| **Total Certificate Credit Hours** | **19** |  |  |  |  |

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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 Network Elective Courses** |
| **Course** | **Cr. Hrs.** | **Prerequisites** |
| CIT 167 Routing & Switching Essentials | 4 | CIT 161 or Consent of Instructor |
| CIT 209 Scaling Networks | 4 | CIT 167 or Consent of Instructor |
| CIT 212 Connecting Networks | 4 | CIT 209 or Consent of Instructor |
| CIT 218 UNIX / Linus Net Infrastructure | 3 | CIT 217 or Consent of Instructor |
| CIT 219 Internet Protocols  | 3 | CIT 160 or CIT 161 or CIT 162 or Consent of Instructor |
| CIT 260 Network Hardware Installation and Troubleshooting | 3 | CIT 111 and CIT 161 + CIT 162 or Consent of Instructor |
| CIT 262 MS Network Infrastructure | 3 | CIT 111 and CIT 160 + CIT 161 or Consent of Instructor |
| CIT 263 Advanced Topics in Microsoft Windows: (Topic) | 1 – 6  | CIT 213 or Consent of Instructor |
| CIT 265 MS Application Servers | 3 | CIT 213 or Consent of Instructor |
| Other Microsoft networking courses as approved by the CIT Program Coordinator |  |  |

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| **Approved Security Elective Courses** |
| **Course** | **Cr. Hrs.** | **Prerequisites** |
| CIT 284 Computer Forensics | 3 | CIT 180 or Consent of Instructor |
| CIT 285 MS Windows OS Security | 3 | CIT 180 and (CIT 214 or CIT 262) or Consent of Instructor |
| CIT 286 UNIX / Linux OS security | 3 | CIT 180 and CIT 217 or Consent of Instructor |
| CIT 287 Cisco OS Security | 3 | CIT 167 or CIT 212 or Consent of Instructor |
| CIT 288 Network Security | 3 | CIT 180 and Level I Networking Specialization Sequence or Consent of Instructor |