****

**Computer and Information Technologies – Data Center Technologies Track**

**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.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **First Semester** | **Credit**  **Hours** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CIT 105 Introduction to Computers | 3 |  |  |  | Should be taken first semester |
| CIT 111 Computer Hardware and Software | 4 |  |  |  | Should be taken first semester |
| CIT 120 Computational Thinking | 3 |  |  | Coreq: MAT 126 or higher | Should be taken first semester |
| CIT 161 Introduction to Networks | 4 |  |  |  | Should be taken first semester |
| MAT 126 Technical Algebra and Trigonometry or higher level Quantitative Literacy course | 3 |  |  |  | MAT 150 recommended |
| **Total Semester Credit Hours** | **17** |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Second Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CIT 167 Routing and Switching Essentials | 4 |  |  | CIT 161 |  |
| CIT 170 Database Design Fundamentals | 3 |  |  | CIT 105 and (MAT 126 or MAT 085 or higher) |  |
| CIT 217 Unix/Linux Administration | 3 |  |  | CIT 111 and CIT 161 | Spring only |
| Approved Level I Programming Language | 3 |  |  |  | See list on back |
| **Total Semester Credit Hours** | **13** |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Summer Session** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CIT 201 Information Storage Management | 3 |  |  | CIT 167 and CIT 217 | Summer only |
| CIT 203 Introduction to Virtualization | 3 |  |  | CIT 167 and CIT 217 | Summer only |
| **Total Session Credit Hours** | **6** |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CIT 204 VMWare Optimize and Scale | 3 |  |  | CIT 203 |  |
| CIT 205 Cloud Infrastructure and Services | 3 |  |  | CIT 201 and CIT 203 |  |
| CIT 262 MS Server Infrastructure | 3 |  |  | CIT 111 and CIT 161 |  |
| Natural Sciences course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **12** |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fourth Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| CIT 180 Security Fundamentals | 3 |  |  | CIT 161 |  |
| CIT 293 CIT Employability Skills | 1 |  |  | Sophomore standing |  |
| ENG 101 Writing I | 3 |  |  |  |  |
| Heritage or Humanities course | 3 |  |  |  |  |
| Social and Behavioral Sciences course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **13** |  |  |  |
| **Total Degree Credit Hours** | **61** |  |  |  |

|  |
| --- |
| * **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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |
| --- |
| **Additional Information** |
| A grade of C or higher is required in each CIT, CS, IMD and INF course used to fulfill degree requirements.  The Data Center Technologies Track requires attendance during the summer. |

|  |  |  |  |
| --- | --- | --- | --- |
| **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 |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 |

|  |
| --- |
| * **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:**