[Computer and Information Technologies – Internet Technologies Track](https://bluegrass.kctcs.edu/education-training/program-finder/computer-information-technology.aspx)

Web Programming and Web Administration Sequences

Associate in Applied Science

Coordinator: Robert Chirwa ([robert.chirwa@kctcs.edu](mailto:robert.chirwa@kctcs.edu)) 859-246-6298

Student Name: Student ID:

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

Semester 1 (All courses listed should be taken during the first semester)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| CIT 105 Introduction to Computers | 3 |  |  |  |  |
| CIT 120 Computational Thinking | 3 |  |  | Coreq: MAT 126 or higher |  |
| ENG 101 Writing I | 3 |  |  |  |  |
| Heritage or Humanities course | 3 |  |  |  |  |
| MAT 150 or higher-level Quantitative Reasoning course recommended | 3 |  |  |  | MAT 126 Technical Algebra and Trigonometry minimum |
| Total Semester Credit Hours | 15 |  |  |  |  |

Semester 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | 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 |  |
| CIT 160 Intro 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 |  |  |  |  |

Semester 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | 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 not taken in 2nd semester |
| CIT 180 Security Fundamentals | 3 |  |  | CIT 160 or CIT 161 |  |
| Sequence Course 1 | 3 |  |  |  | See list |
| Sequence Course 2 | 3 |  |  |  | See list |
| Sequence Course 3 | 3 |  |  |  | See list |
| Total Semester Credit Hours | 15 |  |  |  |  |

Semester 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | 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 |
| Natural Sciences course | 3 |  |  |  |  |
| Social and Behavioral Sciences course | 3 |  |  |  |  |
| Total Semester Credit Hours | 13 |  |  |  |  |
| Total Degree Credit Hours | 60 |  |  |  |  |

**Graduation Requirements:**

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

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.

**Approved Level I Programming Language Courses (must be different from courses taken to fulfill other requirements)**

|  |  |  |  |
| --- | --- | --- | --- |
| Course | Cr. Hrs. | Prerequisites | Notes |
| INF 120 Elementary Programming | 3 |  |  |
| CIT 140 JavaScript I | 3 | CIT 120 and (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 Intro to Computer Programming | 3 |  |  |

**Web Programming Sequence Courses**

Course 1: CIT 171 SQL I

Course 2: CIT 253 Data Driven Web Pages: (Topic)

Course 3: Approved Level I Web Programming Language

Course 4: Approved Level II Web Programming Language Course

**Web Administration Sequence Courses**

Course 1: CIT 219 Internet Protocols

Course 2 and 3: Choose one of the pairs below.

CIT 217 UNIX/Linux Administration AND CIT 218 UNIX/Linux Net Infrastructure OR

CIT 261 MS Active Directory Services AND CIT 262 MS Server Infrastructure OR

CIT 262 MS Server Infrastructure AND CIT 264 Microsoft Server Management

Course 4: CIT 255 Web Server Administration

**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 |  |

**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 |  |

**Embedded Credentials**

|  |  |  |  |
| --- | --- | --- | --- |
| Credential | Title | Requirements | Total Cr. Hours |
| 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 |

**Certificate Requirements:**

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

*Reviewed by: Robert Chirwa Effective Term: Fall 2021*

*Review Date: 03-10-2021*