



**Computer and Information Technologies – Cloud Computing  
Technologies Track – Amazon Web Services Sequence and Data Center  
Technologies Sequence Associate in Applied Science degree**

**Program Coordinator:** Robert Chirwa

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**Program Website:** <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				
MAT 150 or higher level Quantitative Reasoning course recommended	3				MAT 126 Technical Algebra and Trigonometry required
ENG 101 Writing I	3				
Heritage or Humanities course	3				
Social and Behavioral Sciences course	3				
<b>Total Semester Credit Hours</b>	<b>15</b>				

Second Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
CIT 111 Computer Hardware and Software	4			CIT 105 and MAT 065 or higher	
CIT 120 Computational Thinking	3			Coreq: MAT 126 or higher	
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)	
<b>Total Semester Credit Hours</b>	<b>14</b>				

Summer Session	Cr. Hrs.	Term	Grade	Prerequisites	Notes
CIT 201 Information Storage Management	3			CIT 167 and CIT 217	Summer only
CIT 262 MS Server Infrastructure	3			CIT 111 & CIT 160 or 161	
<b>Total Session Credit Hours</b>	<b>6</b>				

Third Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
CIT 180 Security Fundamentals	3			CIT 160 or CIT 161	
Approved Level I Programming Language course	3				
Cloud Computing Sequence Course 1	3				
Cloud Computing Sequence Course 2	3				
<b>Total Semester Credit Hours</b>	<b>12</b>				

Fourth Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
CIT 217 Unix/Linux Administration	3			CIT 111 & CIT 160 or 161	Spring only
CIT 293 CIT Employability Skills	1			Sophomore standing	
Cloud Computing Sequence Course 3	3				
Cloud Computing Sequence Course 4	3 – 4				
Natural Sciences course	3				
<b>Total Semester Credit Hours</b>	<b>13 – 14</b>				
<b>Total Degree Credit Hours</b>	<b>60 – 61</b>				

- 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.

The Cloud Computing Technologies Track requires attendance during the summer.

**SEQUENCE COURSES**

Amazon Web Services Sequence		Data Center Technologies Sequence	
3 <sup>rd</sup> Semester	Prerequisites	3 <sup>rd</sup> Semester	Prerequisites
CIT 206 Amazon Web Services Practitioner	CIT 170 and CIT 160 or CIT 161	CIT 203 Introduction to Virtualization	CIT 167 and CIT 217
CIT 167 Routing and Switching Essentials	CIT 161 or consent of instructor	Approved Networking Elective (other than course taken)	See list below.
4 <sup>th</sup> Semester	Prerequisites	4 <sup>th</sup> Semester	Prerequisites
CIT 207 Amazon Web Services Architecting	CIT 206 and CIT 167	CIT 204 VMware Optimize and Scale	CIT 203
CIT Elective approved by CIT Program Coordinator		CIT 205 Cloud Infrastructure and Services	CIT 201 and CIT 203

**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		

**APPROVED NETWORKING ELECTIVE COURSES**

Course	Cr. Hrs.	Prerequisites	Notes
CIT 160 Introduction to Networking Concepts	4	CIT 111	
CIT 161 Introduction to Networks	4	CIT 111	
Other courses approved by the CIT Program Coordinator	3 – 4		

**Embedded Credentials**

Credential	Title	Requirements	Total Cr. Hrs.
Certificate	A+ Prep	CIT 111	4
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