



Computer and Information Technologies - Network Technologies Track
Microsoft, UNIX/Linux, Cisco Platform and Data Center Platforms

Associate in Applied Science degree

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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				
CIT 111 Computer Hardware and Software	4				
CIT 160 Introduction to Networking Concepts or CIT 161 Introduction to Networks	4			Coreq: CIT 111	CIT 161 is strongly recommended
ENG 101 Writing I	3				
MAT 150 or higher level Quantitative Reasoning course recommended	3				MAT 126 Technical Algebra and Trigonometry required
Total Semester Credit Hours	17				

Second Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
CIT 120 Computational Thinking	3			Coreq: MAT 126 or higher	
CIT 170 Database Design Fundamentals	3			CIT 105 and (MAT 126 or MAT 085 or higher)	
CIT 180 Security Fundamentals	3			CIT 160 or CIT 161	
Platform Course 1	3 – 4				See list on back
Platform Course 2	3 – 4				See list on back
Total Semester Credit Hours	15 – 17				

Third Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
CIT 219 Internet Protocols	3			CIT 160 or CIT 161	
Platform Course 3	3 – 4				
Platform Course 4	3				See list on back
Heritage or Humanities course	3				See list on back
Approved Level I Programming Language	3				
Total Semester Credit Hours	15 – 16				

Fourth Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
CIT 288 Network Security	3			CIT 180 and Level I Programming Language	
CIT 293 CIT Employability Skills	1			Sophomore standing	
Platform Course 5	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 – 63				

- 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

CIT Network Technologies students must choose a primary platform and a secondary platform.

- The primary platform can be Microsoft, Cisco, or Linux.
- The secondary platform must be different from the primary platform and can be Microsoft, Cisco, Linux, or Data Center.

Students must select at least 15 hours of Platform courses. At least 8 hours must be from the primary platform and at least 4 credit hours must be from the secondary platform.

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

PLATFORM COURSES			
Microsoft	Cr. Hr.	Prerequisites	Notes
CIT 213 Microsoft Client Configuration	3	CIT 111 and CIT 160 or 161	Fall only
CIT 214 Microsoft Server Configuration	3	CIT 111 and CIT 160 or 161	Fall only (approved by CIT Coordinator)
CIT 215 Microsoft Server Administration	3	CIT 214	Spring only (approved by CIT Coordinator)
CIT 216 Microsoft Server Advanced Services	3	CIT 214	Spring only (approved by CIT Coordinator)
CIT 261 MS Active Directory Services	3		Fall only
CIT 262 MS Server Infrastructure	3	CIT 111 and CIT 160 or 161	Fall only
CIT 264 Microsoft Server Management	3		Spring only
UNIX/Linux	Cr. Hr.	Prerequisites	Notes
CIT 217 UNIX/Linux Administration	3	CIT 111 and CIT 160 or 161	Spring only (1 st 8 week course)
CIT 218 UNIX/Linux Net Infrastructure	3	CIT 217	Spring only (2 nd 8 week course)
CIT 255 Web Server Administration	3	CIT 218 and 219	Spring only (online)
Cisco	Cr. Hr.	Prerequisites	Notes
CIT 167 Routing & Switching Essentials	4	CIT 161	Spring/Summer only
CIT 212 Connecting Networks	4	CIT 209	
Data Center	Cr. Hr.	Prerequisites	Notes
CIT 201 Information Storage Management	3	CIT 167 and CIT 214 or 217	
CIT 203 Introduction to Virtualization	3	CIT 167 and CIT 214 or 217	
CIT 204 VMWare Optimize and Scale	3	CIT 203	
CIT 205 Cloud Infrastructure and Services	3	CIT 201 and 203	
CIT 206 – Amazon Web Services Practitioner	3	CIT 201 and 203	
CIT 207 – Amazon Web Services Architecting	3	CIT 201 and 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 145 Perl I	3	CIT 120	
CIT 146 Swift I	3	CIT 120	
CIT 147 Programming I: Language	3	CIT 120	
CIT 148 Visual Basic I	3	CIT 120	Fall only
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	Network Technologies Specialist	CIT 219, CIT 288, Completion of required primary and secondary platform courses	21
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