



**Computer and Information Technologies – Internet Technologies Track
Web Programming and Web Administration Sequences**

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				Should be taken first semester
CIT 120 Computational Thinking	3			Coreq: MAT 126 or higher	Should be taken first semester
ENG 101 Writing I	3				
Heritage or Humanities course	3				Should be taken first semester
MAT 150 or higher level Quantitative Reasoning course recommended	3				MAT 126 Technical Algebra and Trigonometry required
Total Semester Credit Hours	15				

Second Semester	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	Select 1 of CIT 150, CIT 155 and CIT 157
CIT 160 Introduction 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				

Third Semester	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 of CIT 150, 155 and 157 not taken in 2 nd semester
CIT 180 Security Fundamentals	3			CIT 160 or CIT 161	
Sequence Course 1	3				See list on back
Sequence Course 2	3				See list on back
Sequence Course 3	3				See list on back
Total Semester Credit Hours	15				

Fourth Semester	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 on back
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 Sequence Courses)
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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		

SEQUENCE COURSES

Web Programming Sequence		Web Administration Sequence	
3 rd Semester	Prerequisites	3 rd Semester	Prerequisites
CIT 171 SQL I	CIT 120 or 170	CIT 219 Internet Protocols	CIT 160 or 161
CIT 253 Data Driven Web Pages: (Topic)	CIT 150 or 155 or 157 and CIT 170	CIT 217 UNIX/Linux Administration + CIT 218 UNIX/Linux Net Infrastructure OR CIT 261 MS Active Directory Services + CIT 262 MS Server Infrastructure OR CIT 262 MS Server Infrastructure + CIT 264 Microsoft Server Management	CIT 111 and CIT 160 or 161
Approved Level I Web Programming Language	See List above		
4 th Semester	Prerequisites	4 th Semester	Prerequisites
Approved Level II Web Programming Language Course	See List below	CIT 255 Web Server Administration	CIT 150 or 155 or 157 and CIT 219

Approved Level I Web Programming Language Courses
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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. 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

- 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