



Computer & Information Technologies – Programming Track (110101709)
Programming Software Development Sequence **Credential (AAS)**

Program Coordinator: Don Halcomb
 Mike Hardin

E-mail: don.halcomb@kctcs.edu
 mike.hardin@kctcs.edu

Phone: 859-246-6289
 859-246-6619

Program Website: <https://bluegrass.kctcs.edu/education-training/program-finder/computer-information-technology.aspx>

Student Name:

Student ID:

Students need to be at KCTCS placement levels for all courses

First Semester	Credits	Term	Grade	Prereqs/Notes
CIT 105 – Introduction to Computers	3			Should be taken first semester
CIT 120 – Computational Thinking	3			Should be taken first semester
Heritage OR Humanities course	3			
ENG 101 – Writing I	3			
MAT 150 College Algebra (Quantitative Reasoning)	3			Should be taken first semester
Total Semester Credit Hours	15			

Second Semester	Credits	Term	Grade	Prereqs/Notes
Level I Programming Language Course	3			See list below
CIT 111 – Computer Hardware and Software	4			
CIT 160 – Introduction to Networking Concepts	4			OR CIT 161 – Introduction to Networks (4) Co-requisite with CIT 111
CIT 170 – Database Design Fundamentals	3			
CIT 150 or CIT 155 or CIT 157	3			
Total Semester Credit Hours	17			

Third Semester	Credits	Term	Grade	Prereqs/Notes
Level II Programming Language Course	3-4			See list below
Level I Programming Language Course	3			See list below
CIT 180 – Security Fundamentals	3			
CIT 253 - Data Driven Web Pages	3			
Natural Science	3			
Total Semester Credit Hours	15-16			

Fourth Semester	Credits	Term	Grade	Prereqs/Notes
Level II Programming Language Course	3			See list below
Level I, II, or III Programming Lang. Course	3			See list below
CIT 293 – CIT Employability Skills	1			
CIT Technical Course	3			See list below
Social/Behavioral	3			
Total Semester Credit Hours	13			

Note: 25% of Total Program Credit Hours must be earned at Bluegrass Community and Technical College.

Advisor Name: _____ **Advisor Signature:** _____

Student Name: _____ **Student Signature:** _____

Special Instructions:

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Approved Electives (if applicable)**Level I Programming Language Courses: See list below**

INF 120	Elementary Programming (3)
CIT 140	JavaScript I (3)
CIT 141	PHP I (3)
CIT 142	C++ I (3)
CIT 143	C# I (3)
CIT 144	Python I (3)
CIT 145	Perl I (3)
CIT 146	Swift I (3)
CIT 147	Programming I: Language (3)
CIT 148	Visual Basic I (3)
CIT 149	Java I (3)
CIT 171	SQL I (3)
CS 115	Intro to Computer Programming (3)

Level II Programming Language Courses: See list below

INF 260	Object-Oriented Programming (3)
CIT 237	iOS Programming I (3)
CIT 238	Android Programming I (3)
CIT 241	PHP II (3)
CIT 242	C++ II (3)
CIT 243	C# II (3)
CIT 244	Python II (3)
CIT 247	Programming II: Language (3)
CIT 248	Visual Basic II (3)
CIT 249	Java II (3)
CIT 271	SQL II (3)
CS 215	Introduction to Program Design, ect. (4)

Level III Programming Language Courses: See list below

CIT 277	Programming III: Language (3)
CIT 278	Visual Basic III (3)
CS 216	Introduction to Software Engineering (3)

CIT Technical Elective Note

CIT Course	Not previously taken
Other Courses	As approved by CIT Program Coordinator