

# Certificate Programmer



Name	Empl. ID	Date Entered	Date Grad

REQUIRED COURSES	Credit	Res	Tr	Notes
CIT 120 Computational Thinking	3			Recommended first semester
Approved Level I Programming Language*	3			
Approved Level II Programming Language**	3			
Approved Level I, II, or III Programming Language***	3			
<b>CERTIFICATE TOTAL</b>	<b>12</b>			

*LEVEL I PROGRAMMING LANGUAGES*	Credit	Res	Tr	Notes
CIT 140 Java Script I	3			Prereq: CIT 120
CIT 141 PHP I	3			Prereq: CIT 120
CIT 142 C++ I	3			Prereq: CIT 120
CIT 143 C# I	3			Prereq: CIT 120
CIT 144 Python I	3			Prereq: CIT 120
CIT 145 Perl I	3			Prereq: CIT 120
CIT 146 Swift I	3			Prereq: CIT 120
CIT 147 Programming I: Language	3			Prereq: CIT 120
CIT 148 Visual Basic I	3			Prereq: CIT 120
CIT 149 Java I	3			Prereq: CIT 120
CIT 171 SQL I	3			Prereq: CIT 120
University Level I programming language as approved by program coordinator	3-4			

**LEVEL II PROGRAMMING LANGUAGES	Credit	Res	Tr	Notes
CIT 237 iOS Programming	3			Prereq: CIT 146
CIT 238 Android Programming	3			Prereq: CIT 149 or INF 120
CIT 241 PHP II	3			Prereq: CIT 141
CIT 242 C++ II	3			Prereq: CIT 142
CIT 243 C# II	3			Prereq: CIT 143
CIT 244 Python II	3			Prereq: CIT 144
CIT 247 Programming II: Language	3			Prereq: CIT 147
CIT 248 Visual Basic II	3			Prereq: CIT 148
CIT 249 Java II	3			Prereq: CIT 149
CIT 271 SQL II	3			Prereq: CIT 171
University Level II programming language as approved by program coordinator	3-4			

<b>***LEVEL III PROGRAMMING LANGUAGES</b>	<b>Credit</b>	<b>Res</b>	<b>Tr</b>	<b>Notes</b>
CIT 277 Programming III: Language	3			Prereq: CIT 247 (using the same programming language) or instructor consent
CIT 278 Visual Basic III	3			Prereq: CIT 248 or instructor consent
University Level III programming language as approved by program coordinator	3-4			

*Students graduating with a degree or certificate in Computer and Information Technologies may only use a course with a grade of “C” or higher (or a “P” for Pass/Fail courses) to fulfill a core or track graduation requirement.*

*The Computer and Information Technologies department does not accept non-general education courses older than five years from returning or transfer students without consent from the local program coordinator.*

Requirements taken from the 2019-2020 KCTCS Catalog