

**Associate in Applied Science
Computer and Information Technologies
Programming Track**



Name _____	Empl. ID# _____	Date Entered _____	Date Grad. _____	
DEVELOPMENTAL COURSES AS NEEDED		Notes		
RDG 30 <i>OR</i> RDG 100				
ENC 91				
MAT 55				
MAT 65				
MAT 85				
GENERAL EDUCATION COURSES	Credit	Res	Tr	Notes
ENG 101 Writing I	3			
MAT 150 College Algebra	3			
Natural Science	3			
Social and Behavioral Science	3			
Heritage/Humanities	3			
GENERAL EDUCATION SUBTOTAL:	15			
TECHNICAL CORE COURSES	Credit	Res	Tr	Notes
CIT 105 Introduction to Computers	3			Recommended first semester
CIT 111 Computer Hardware and Software	4			Coreq: CIT 105 and MAT 65 Recommended first semester
CIT 120 Computational Thinking	3			Prereq: Digital lit and MAT 85 or 126
CIT 170 Database Design Fundamentals	3			Prereq: Digital lit and MAT 85 or 126
CIT 180 Security Fundamentals	3			Prereq: CIT 105 and CIT 160 or 161
CIT 160 Introduction to Networking Concepts <i>OR</i> CIT 161 Network Fundamentals	4 (4)			Prereq: MAT 85. Coreq: CIT 111 or consent of instructor
Level I Programming Course	3			Prereq: CIT 120
CIT 293 CIT Employability Studies	1			Prereq: sophomore standing in CIT
TECHNICAL CORE SUBTOTAL:	24			
PROGRAMMING TRACK COURSES	Credit	Res	Tr	Notes
Approved Level II Programming Language	3			
Approved Level I, II, or III Programming Language	3			
Approved CIT Technical Course	3			
Info Systems or Software Dev Specialization Sequence	12			
PROGRAMMING TRACK SUBTOTAL	21			
PROGRAMMING DEGREE TOTAL	60			

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.

INFORMATION SYSTEMS SPECIALIZATION	Credit	Res	Tr	Notes
CIT 171 SQL I	3			Prereq: CIT 120
Approved CIT Technical Course	3			
Approved Business Management course (see list below)	3			
Approved Business course (see list below)	3			
INFORMATION SYSTEMS SPECIALIZATION SUBTOTAL	12			

SOFTWARE DEVELOPMENT SPECIALIZATION	Credit	Res	Tr	Notes
Level I Programming Language Course (see list below)	3			
Level II Programming Language Course (see list below)	3			
CIT 150 Internet Technologies <i>OR</i>	3			Prereq: CIT 105 or 120
CIT 155 Web Page Development <i>OR</i>	(3)			Prereq: CIT 105 or consent of instructor
CIT 157 Web Site Design and Production	(3)			Prereq: CIT 105 or consent of instructor
CIT 253 Data-Driven Web Pages	3			Prereq: CIT 150, 155 or 170 and Level I Programming Language
SOFTWARE DEVELOPMENT SPECIALIZATION SUBTOTAL	12			

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 246 2D Game Development: Language	3			Prereq: Level I programming language
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			

LEVEL III PROGRAMMING LANGUAGES	Credit	Res	Tr	Notes
CIT 276 3D Game Development: Language	3			Prereq: CIT 246 (using same programming language) or consent of instructor
CIT 277 Programming III: Language	3			Prereq: CIT 247 (using the same programming language) or consent of instructor
CIT 278 Visual Basic III	3			Prereq: CIT 248 or consent of instructor
University Level III programming language as approved by program coordinator	(3-4)			

BUSINESS MANAGEMENT COURSES	Credit	Res	Tr	Notes
BAS 200 Small Business Management	3			Prereq: BAS 160 or consent of instructor
BAS 274 Human Resource Management	3			Prereq: BAS 160 and 283 or consent of instructor
BAS 283 Principles of Management	3			Prereq: BAS 160 or consent of instructor
BAS 287 Supervisory Management	3			
BAS 288 Personal and Organizational Leadership	3			
MFG 256 Production Management	3			
OST 275 Office Management	3			
QMS 101 Introduction to Quality Systems	3			
QMS 201 Customer Service Improvement Skills	3			Prereq: QMS 101 or consent of instructor
Management course approved by the program coordinator	3			

BUSINESS COURSES	Credit	Res	Tr	Notes
ACT 101 Fundamentals of Accounting	3			
ACC 201 Financial Accounting I	3			Prereq: sophomore standing
BAS 160 Introduction to Business	3			
IFM 128 Principles of Informatics	3			
IFM 211 Collaboration Software	3			Prereq: digital literacy
Business course approved by the program coordinator	3			

For a list of KCTC general education classes in each category, go to https://kctcs.edu/degrees_training/catalog/2018-2019-KCTCS-Catalog.pdf pp. 76-80. Or www.kctcs.edu> degrees & training> 2018-19 catalog> pp. 76-80.