

**Associate in Applied Science  
Computer and Information Technologies  
Information Security 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			
<b>GENERAL EDUCATION SUBTOTAL:</b>	<b>15</b>			

TECHNICAL CORE COURSES	Credit	Res	Tr	Notes
CIT 105 Introduction to Computers	3			<b>Recommended first semester</b>
CIT 111 Computer Hardware and Software	4			Coreq: CIT 105 and MAT 65 <b>Recommended first semester</b>
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 (see list below)	3			Prereq: CIT 120
CIT 293 CIT Employability Studies	1			Prereq: sophomore standing in CIT
<b>TECHNICAL CORE SUBTOTAL:</b>	<b>24</b>			

SECURITY TRACK COURSES	Credit	Res	Tr	Notes
CIT 182 Perimeter Defense	3			Prereq: CIT 180 or consent of instructor
CIT 184 Attacks and Exploits	3			Prereq: CIT 180 or consent of instructor
CIT 217 UNIX/Linux Administration	3			Prereq: CIT 111 and CIT 160/161 or consent of instructor
Approved Network Elective Courses (see list below)	6			
Approved Security Elective Course (see list below)	3			
Approved CIT Technical Courses	6			
<b>SECURITY TRACK SUBTOTAL</b>	<b>21</b>			
<b>SECURITY DEGREE TOTAL</b>	<b>60</b>			

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. Students may not use one course to fulfill multiple requirements.

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 program coordinator.

LEVEL I PROGRAMMING COURSES	Credit	Res	Tr	Notes
CIT 140 Java Script I	3			Prereq: CIT 120 and either CIT 150 or 155
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			

APPROVED NETWORK ELECTIVE COURSES	Credit	Res	Tr	Notes
CIT 167 Routing and Switching Essentials	4			Prereq: CIT 161 or consent of instructor
CIT 209 Scaling Networks	4			Prereq: CIT 167 or consent of instructor
CIT 212 Connecting Networks	4			Prereq: CIT 209 or consent of instructor
CIT 214 Microsoft Server Configuration	3			Prereq: CIT 111 and CIT 160/161 or consent of instructor
CIT 215 Microsoft Server Administration	3			Prereq: CIT 214
CIT 216 Microsoft Server Advanced Services	3			Prereq: CIT 214
CIT 218 UNIX/Linux Net Infrastructure	3			Prereq: CIT 217 or consent of instructor
CIT 219 Internet Protocols	3			Prereq: CIT 160/161/ or CIT 162 or consent of instructor
CIT 260 Network Hardware Installation and Troubleshooting	3			Prereq: CIT 160 or consent of instructor
CIT 263 Advanced Microsoft Topics	3			Prereq: CIT 213 or consent of instructor
Other Microsoft networking courses approved by coordinator	3			

APPROVED SECURITY ELECTIVE COURSES	Credit	Res	Tr	Notes
CIT 284 Computer Forensics	3			Prereq: CIT 180 or consent of instructor
CIT 285 Windows OS Security	3			Prereq: CIT 180 and either CIT 214 or CIT 262 or consent of instructor
CIT 286 UNIX/Linux OS Security	3			Prereq: CIT 180 and CIT 217 or consent of instructor
CIT 287 Cisco OS Security	3			Prereq: CIT 167 or CIT 212 or consent of instructor
CIT 288 Cisco OS Security	3			Prereq: CIT 180 and Level I Network Technologies Specialization Sequence or consent of instructor

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