

**Associate in Applied Science Degree  
Computer and Information Technologies  
Cloud Computing Technologies Track**



Name	Empl. ID	Date Entered	Date Grad

DEVELOPMENTAL COURSES AS NEEDED	Completed	Notes
RDG 20 <i>OR</i> RDG 100		
ENC 90		
MAT 61		
MAT 85		

GENERAL EDUCATION COURSES	Credit	Res	Tr	Notes
ENG 101 Writing I	3			
Approved Quantitative Reasoning Course (see list below)	3-5			
Natural Sciences	3			
Social and Behavioral Sciences	3			
Heritage/Humanities	3			
<b>GENERAL EDUCATION SUBTOTAL:</b>	<b>15-17</b>			

TECHNICAL CORE COURSES	Credit	Res	Tr	Notes
CIT 105 Introduction to Computers	3			<b>Recommended first semester</b> Prereq: RDG 20 or instructor consent
CIT 111 Computer Hardware and Software	4			Coreq: CIT 105 and MAT 61 or instructor consent <b>Recommended first semester</b>
CIT 120 Computational Thinking	3			Prereq: MAT 85 or MAT 126 or higher or instructor consent Prereq or Coreq: CIT 105
CIT 170 Database Design Fundamentals	3			Prereq: CIT 105 and MAT 85 or MAT 126 or higher or instructor consent
CIT 180 Security Fundamentals	3			Prereq: CIT 160 or CIT 161 or instructor consent
CIT 160 Introduction to Networking Concepts <i>OR</i> CIT 161 Network Fundamentals	4			Prereq: MAT 61 or instructor consent Prereq or Coreq: CIT 111 or instructor consent
Level I Programming Language	3			Prereq: CIT 120
CIT 293 CIT Employability Studies	1			Prereq: sophomore standing in CIT
<b>TECHNICAL CORE SUBTOTAL:</b>	<b>24</b>			

CLOUD COMPUTING TECHNOLOGIES TRACK COURSES	Credit	Res	Tr	Notes
CIT 201 Information Storage Management	3			Prereq: CIT 167 AND CIT 214 OR CIT 217 OR CIT 262 OR instructor consent
CIT 217 UNIX/Linux Administration	3			Prereq: CIT 111 and CIT 160/161 or instructor consent
CIT 262 MS Server Infrastructure	3			Prereq: CIT 111 and CIT 160/161 or instructor consent

<b>CLOUD COMPUTING TECHNOLOGIES TRACK COURSES</b>	<b>Credit</b>	<b>Res</b>	<b>Tr</b>	<b>Notes</b>
Cloud Computing Technologies Track Course Sequence (see below)	12-13			
<b>CLOUD COMPUTING TECHNOLOGIES TRACK SUBTOTAL</b>	<b>21-22</b>			
<b>CLOUD COMPUTING TECHNOLOGIES DEGREE TOTAL</b>	<b>60-63</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.

<b>AMAZON WEB SERVICES SEQUENCE</b>	<b>Credit</b>	<b>Res</b>	<b>Tr</b>	<b>Notes</b>
CIT 206 Amazon Web Services Practitioner	3			Prereq: CIT 170 AND CIT 161 OR CIT 160, or consent of the instructor.
CIT 207 Amazon Web Services Architecting	3			Prereq: CIT 206 AND CIT 167, or instructor consent
CIT 167 Routing and Switching Essentials	4			Prereq: CIT 161
Approved CIT Elective	3			
<b>AMAZON WEB SERVICES SEQUENCE SUBTOTAL</b>	<b>13</b>			

<b>DATA CENTER TECHNOLOGIES SEQUENCE</b>	<b>Credit</b>	<b>Res</b>	<b>Tr</b>	<b>Notes</b>
CIT 203 Introduction to Virtualization	3			Prereq: CIT 167 AND CIT 214 OR CIT 217 OR CIT 262 OR instructor consent
CIT 204 VMWare Optimize and Scale	3			Prereq: CIT 203 OR instructor consent
CIT 205 Cloud Infrastructure and Services	3			Prereq: CIT 201 and CIT 203 OR instructor consent
Approved Network Elective (see list below)	3-4			
<b>DATA CENTER TECHNOLOGIES SEQUENCE SUBTOTAL</b>	<b>12-13</b>			

<b>LEVEL I PROGRAMMING COURSES</b>	<b>Credit</b>	<b>Res</b>	<b>Tr</b>	<b>Notes</b>
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			

<b>APPROVED NETWORK ELECTIVE COURSES</b>	<b>Credit</b>	<b>Res</b>	<b>Tr</b>	<b>NOTES</b>
CIT 167 Routing and Switching Essentials	4			Prereq: CIT 161 or instructor consent
CIT 209 Scaling Networks	4			Prereq: CIT 167 or instructor consent
CIT 212 Connecting & Scaling Networks	4			Prereq: CIT 167 or instructor consent
CIT 218 UNIX/Linux Network Infrastructure	3			Prereq: CIT 217
CIT 219 Internet Protocols	3			Prereq: CIT 160/161/ or CIT 162 or instructor consent
CIT 260 Network Hardware Installation and Troubleshooting	3			Prereq: CIT 160 or instructor consent
CIT 261 MS Active Directory Services	3			Prereq: CIT 111 and CIT 160/161 or instructor consent
CIT 262 MS Server Infrastructure	3			Prereq: CIT 111 and CIT 160/161 or instructor consent
CIT 263 Advanced Microsoft Topics	3			Prereq: CIT 213 or instructor consent
CIT 264 Microsoft Server Management	3			Prereq: CIT 262 or instructor consent
CIT 267 UNIX/Linux Network Services	3			CIT 218 or instructor consent
Other Microsoft networking courses approved by coordinator	3			

<b>APPROVED QUANTITATIVE REASONING COURSES</b>	<b>Credit</b>	<b>Res</b>	<b>Tr</b>	<b>NOTES</b>
MAT 126 Technical Algebra and Trigonometry	3			
MAT 146 Contemporary College Mathematics	3			
MAT 150 College Algebra	3			
MAT 155 Trigonometry	3			
MAT 160 Precalculus	3			
MAT 161 Statistics and Algebra	3			
MAT 165 Finite Mathematics and its Applications	3			
MAT 170 Brief Calculus with Applications	3			
MAT 171 Precalculus	5			
MAT 174 Calculus I	5			
MAT 175 Calculus II	5			

For a list of KCTCS general education classes in each category, go to

<https://kctcs.edu/education-training/course-catalog/2019-2020-KCTCS-Catalog.pdf> pp. 77-80.

Or KCTCS Homepage (www.kctcs.edu)> education & training> course catalog> 2019-2020 KCTCS Catalog> pp. 77-80.

Requirements taken from the 2019-2020 KCTCS Catalog