

**Associate in Applied Science
Computer and Information Technologies
Network 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			
GENERAL EDUCATION SUBTOTAL:	15-17			

TECHNICAL CORE COURSES	Credit	Res	Tr	Notes
CIT 105 Introduction to Computers	3			Recommended first semester Prereq: RDG 20 or instructor consent
CIT 111 Computer Hardware and Software	4			Coreq: CIT 105 and MAT 61 or instructor consent Recommended first semester
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 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
TECHNICAL CORE SUBTOTAL:	24			

NETWORK TECHNOLOGIES TRACK COURSES	Credit	Res	Tr	Notes
CIT 219 Internet Protocols	3			Prereq: CIT 160/161/ or CIT 162 or instructor consent
CIT 288 Network Security	3			Prereq: CIT 180 and Level I Network Technologies Specialization Sequence or instructor consent
Courses from the Network Technologies Course Sequences – at least 8 hours from a single platform and at least 4 hours from a different platform (see below)	15			
NETWORK TECHNOLOGIES TRACK SUBTOTAL	21			

NETWORK TECHNOLOGIES TRACK COURSES	Credit	Res	Tr	Notes
NETWORK TECHNOLOGIES DEGREE TOTAL	60-62			

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.

NETWORK TECHNOLOGIES COURSE SEQUENCES

Select 15 hours from the Platforms listed below. At least 8 hours must be from a single platform and at least 4 hours must be from a different platform.

Microsoft Platform	Credit	Res	Tr	Notes
CIT 213 MS Client/Server Configuration	3			Prereq: CIT 111 and either CIT 160, 161 or 162
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 264 Microsoft Server Management	3			Prereq: CIT 262 or instructor consent
CIT 285 MS Windows OS Security	3			Prereq: CIT 180 and either CIT 214 or CIT 262 or instructor consent
Other Microsoft networking courses as approved by the CIT Program Coordinator	3			

Cisco Platform	Credit	Res	Tr	Notes
CIT 167 Routing and Switching Essentials	4			Prereq: CIT 161
CIT 212 Connecting & Scaling Networks	4			Prereq: CIT 167 or instructor consent
CIT 287 Cisco OS Security	3			Prereq: CIT 167 or CIT 212 or instructor consent

UNIX/Linux Platform	Credit	Res	Tr	Notes
CIT 217 UNIX/Linux Administration	3			Prereq: CIT 111 and CIT 160/161 or instructor consent
CIT 218 UNIX/Linux Network Infrastructure	3			Prereq: CIT 217
CIT 255 Web Server Administration	3			Prereq: (CIT 150 or CIT 155 or CIT 157) and (CIT 214 or CIT 218 or CIT 262) and CIT 219 or instructor consent
CIT 267 UNIX/Linux Network Services	3			CIT 218 or instructor consent
CIT 286 UNIX/Linux OS Security	3			Prereq: CIT 180 and CIT 217 or instructor consent

Data Center Platform	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 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
CIT 206 Amazon Web Services Practitioner	3			Prereq: CIT 170 and CIT 161 or CIT 160, or instructor consent
CIT 207 Amazon Web Services Architecting	3			Prereq: CIT 206 and CIT 167 or instructor consent

Security Platform	Credit	Res	Tr	Notes
CIT 182 Perimeter Defense	3			Prereq: CIT 180 or instructor consent
CIT 184 Attacks and Exploits	3			Prereq: CIT 180 or instructor consent

LEVEL I PROGRAMMING COURSES	Credit	Res	Tr	Notes
CIT 140 Java ScriptI	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 QUANTITATIVE REASONING COURSES	Credit	Res	Tr	NOTES
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