Student Name: _____

Computer & Information Technologies: Network Technologies Track *(66 - 68 Total Credit Hrs)*

Maysville Community & Technical College — Open Admissions

Associate in Applied Science (AAS) Degree

Terry Pasley, Program Coordinator

Phone: (606)-759-7141 ext. 66153 **Office:** A-300 Maysville Campus Admin. Building **Email:** terry.pasley@kctcs.edu

Academic Plan Code: 1101017089 **Academic Sub Code:** 110101713 **Academic Program Code:** ENTC

General Education *(15 credit hours)*		**Credit Hours**	**Semester Taken**
ENG 101	Writing I	3	
MAT 150	College Algebra	3	
**** Choose (1) Course from the General Education Area***			
	*Natural Sciences Course	3	
	*Heritage / Humanities Course	3	
	*Social / Behavioral Sciences Course	3	
	Subtotal	**15**	

Core Requirements *(29 Credit Hours)*		**Credit Hours**	**Semester Taken**
CIT 105	Introduction to Computers	3	
CIT 111	Computer Hardware and Software	4	
CIT 120	Computational Thinking	3	
CIT 150	Internet Technologies	3	
CIT 170	Database Design Fundamentals	3	
CIT 180	Security Fundamentals	3	
	Approved Level I Networking Course	4	
	Approved Level I Programming Language Course	3	
CIT 291	CIT Capstone	3	
	Subtotal	**29**	

Approved Level I Networking Courses *(Choose (1) Course)*		**Credit Hours**	**Semester Taken**
CIT 160	Intro to Networking Concepts	4	
CIT 161	Network Fundamentals	4	
CIT 162	Home and Small Office Fundamentals	4	

Approved Level I Programming Language Courses *(Choose (1) Course)*		**Credit Hours**	**Semester Taken**
CIT 140	JavaScript I	3	
CIT 141	PHP I	3	
CIT 142	C++ I	3	
CIT 145	Perl I	3	
CIT 147	Programming I: Language	3	
CIT 148	Visual Basic I	3	
CIT 149	Java I	3	
CIT 171	SQL I	3	

Notes:

1. It is the responsibility of the student to notify their Advisor of changes they have made to their class schedule. Failure to do so could result in a delayed graduation date or ineligibility for graduation. (*Examples: Online registration, drop/add, or change of class sequence.)*
2. Students that are currently taking Developmental Math Courses should work towards **completing MAT 150 as soon as possible**.
   - **a.** MAT 65 must be completed before enrolling into a Level I Networking course; OR Consent of Instructor.
   - **b.** MAT 85 must be completed before enrolling into CIT 111 and/or CIT 120; OR Consent of Instructor.
   - **c.** MAT 150 is suggested as an approved Quantitative Reasoning course, which must be completed before enrolling into CIT 170; OR Consent of Instructor.
3. Certificates may also be completed prior to or while earning an AAS degree. (Refer to MCTC's CIT Program Website).
4. AAS Degrees can be transferable to Four-Year Institutions that offer a Baccalaureate Degree. Students should consult their Advisor or Program Coordinator regarding Transfer Agreements.
5. In order to obtain an AAS Degree, students are required to maintain a minimum cumulative GPA of 2.0.
6. Required minimum ACT or COMPASS placement scores are listed below:

	Math	**Reading**	**Writing**
ACT	19	20	18
COMPASS	36 (Algebra)	85	74

Network Technologies Track *(22 - 24 Credit Hours)*		**Credit Hours**	**Semester Taken**
CIT 219	Internet Protocols	3	
CIT 288	Network Security	3	
	Approved Level I and Level II Network Technology Course Sequence *(Choose (1) Sequence)*	12	
	Approved Level I, Level II, or Level III Network Technologies Specialization Sequence	4 - 6	
	Track Subtotal	**22 - 24**	

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APPROVED (LEVEL I AND II) NETWORK TECHNOLOGIES SEQUENCES

****Choose (1) Sequence for both Level I and Level II**

Microsoft Windows Course Sequence *(12 Credit Hours)*		Credit Hours	Semester Taken
Sequence I			
CIT 213	MS Client/Server Config	3	
CIT 261	MS Active Directory Services	3	
CIT 262	MS Network Infrastructure	3	
Sequence II *(Choose (1) Course)*			
CIT 265	MS Application Servers	3	
CIT 264	MS Server Admin	3	
CIT 266	MS Enterprise Administration	3	
	Sequence I and II Subtotal	**12**	

UNIX/Linux Course Sequence *(12 Credit Hours)*		Credit Hours	Semester Taken
Sequence I			
CIT 217	UNIX/Linux Administration	3	
CIT 218	UNIX/Linux Net Infrastructure	3	
Sequence II *(Choose (2) Courses)*			
CIT 286	UNIX/Linux OS Security	3	
CIT 255	Web Server Administration	3	
CIT 145	Perl I	3	
	Sequence I and II Subtotal	**12**	

Cisco Course Sequence *(12 Credit Hours)*		Credit Hours	Semester Taken
Sequence I			
CIT 210	Routing Protocols and Concepts	4	
Sequence II			
CIT 211	LAN Switching and Wireless	4	
CIT 212	Accessing the WAN	4	
	Sequence I and II Subtotal	**12**	

Security Sequence I *(Choose (2) Courses)*		Credit Hours	Semester Taken
CIT 182	Perimeter Defense and Countermeasures	3	
CIT 184	Attacks and Exploits	3	
CIT 284	Computer Forensics	3	
CIT 285	Windows OS Security	3	
CIT 286	UNIX/Linux OS Security	3	

APPROVED (LEVEL III) NETWORK TECHNOLOGIES SEQUENCES

Choose (4 - 6) Credit Hours from ANY Level I, II Course Sequence (Including Security Sequence I)

-OR-

Complete Internet Servers Admiration Course Sequence

Internet Servers Administration Course Sequence *(6 Credit Hours)*		Credit Hours	Semester Taken
CIT 255	Web Server Administration	3	
CIT 265	MS Applications Servers	3	
	Sequence Subtotal	**6**	

Program Description

The Computer Information Technology (CIT) program includes tracks in Applications, Information Security, Internet Technologies, Network Administration, Network Technologies, and Programming, with a core of courses common to all. The core includes a general education component essential to a collegiate education and a technical component giving students an introduction to information systems, computer applications, program development, system maintenance, networking, security, Internet technologies, database design, and collaborative system development. In addition to core courses, students take specialty courses for their selected track.

The Network Technologies Track provides the concepts and skills needed to set up, maintain, and expand networked computer systems. This track requires sequences in Microsoft Windows, Cisco, and UNIX/Linux as well as courses providing deeper insight into Internet protocols and network security. Employment opportunities include entry-level positions in installation and administration of local area networks in medium to large organizations and as computer network administrators in small business.

Upon completion of this program, the graduate can:

1. Describe the communication protocols for computer networks.
2. Use a platform-specific network operating system to create and manage user accounts.
3. Use a platform-specific network operating system to share and secure resources.
4. Use a platform-specific network operating system to establish and maintain Internet connections.
5. Implement advanced network security measures

Total Credit Hours: 66 - 68