

Student Name: \_\_\_\_\_

**Computer & Information Technologies:  
Network Technologies Track (60-63 Total Credit Hrs)**

Maysville Community & Technical College

Open Admissions

Associate in Applied Science (AAS) Degree

Sharon Staviski, Program Coordinator

Phone: (606)-783-1538 ext. 66318

Office: 206E Rowan Campus

Email: sharon.staviski@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 126	Technical Algebra and Trigonometry (or higher)	3	
<b>* Choose (1) Course from the General Education Area</b>			
	*Natural Sciences Course	3	
	*Heritage / Humanities Course	3	
	*Social / Behavioral Sciences Course	3	
<b>Subtotal</b>		<b>15</b>	

Core Requirements		Credit Hours	Semester Taken
CIT 105	Introduction to Computers	3	
CIT 111	Computer Hardware and Software	4	
CIT 120	Computational Thinking	3	
CIT 170	Database Design Fundamentals	3	
CIT 180	Security Fundamentals	3	
	Approved Level I Networking Course	4	
	Approved Level I Programming Lan-	3	
CIT 293	CIT Employability Studies	1	
<b>Subtotal</b>		<b>24</b>	

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 144	Python 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	
	University Level I programming language as approved by Program Coordinator	3-4	

**Notes:**

- 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.*)
- Students that are currently taking Developmental Math Courses should work towards completing MAT 126 as soon as possible.
  - MAT 65 must be completed before enrolling into a Level I Networking course; OR Consent of Instructor.
  - MAT 85 must be completed before enrolling into CIT 111 and/or CIT 120; OR Consent of Instructor.
  - MAT 126 is suggested as an approved Quantitative Reasoning course, which must be completed before enrolling into CIT 170; OR Consent of Instructor.
- Certificates may also be completed prior to or while earning an AAS degree. (Refer to MCTC's CIT Program Website).
- 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.
- Students may only use a course with a grade of "C" or higher to fulfill a core or track graduation requirement.
- In order to obtain an AAS Degree, students are required to maintain a minimum cumulative GPA of 2.0.
- Required minimum ACT, TABE, KYOTE or COMPASS placement scores for general education courses are listed below.

	Math	Reading	Writing
<b>ACT</b>	19	20	18
<b>COMPASS</b>	ALG 25	85	74
<b>KYOTE</b>	CA 14 or higher	N/A	N/A
<b>TABE</b>	N/A	12.2-12.9	12.8.12.9

Network Technologies Track (21 Credit Hours)		Credit Hours
CIT 219	Internet Protocols	3
CIT 288	Network Security	3
	Approved Network Tech Specialization sequence (select 15 hrs from courses listed on back. At least 8 hours must be from a single platform and at least 4 hours must be from a different platform.)	15
<b>Track Subtotal</b>		<b>21</b>

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Microsoft Platform		Credit Hours	Semester Taken
CIT 213	MS Client Configuration	3	
CIT 214	MS Server Configuration	3	
CIT 215	MS Server Administration	3	
CIT 216	MS Server Advanced Services	3	
	Other Microsoft networking courses as approved by Program coordinator		

#### \*\*Specialization and Sequence Course Notes:

#### **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.

UNIX/Linux Platform		Credit Hours	Semester Taken
CIT 217	UNIX/Linux Administration AND	3	
CIT 218	UNIX/Linux Net Infrastructure	3	
CIT 255	Web Server Administration	3	

Cisco Platform		Credit Hours	Semester Taken
CIT 167	Routing & Switching Essentials	4	
CIT 209	Scaling Networks	4	
CIT 212	Connecting Networks	4	

Data Center Platform		Credit Hours	Semester Taken
CIT 201	Information Storage Management	3	
CIT 203	Introduction to Virtualization	3	
CIT 204	VMWare Optimize and Scale	3	
CIT 205	Cloud Infrastructure and Services	3	

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**Total Credit Hours: 60-63**