

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

**Computer & Information Technologies:**

**Network Administration 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

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Academic Plan Code: 1101017089

Academic Sub Code: 110101708

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 Language Course	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
ACT	19	20	18
COMPASS	ALG 25	85	74
KYOTE	CA 14 or higher	N/A	N/A
TABE	N/A	12.2-12.9	12.8.12.9

Network Administration Track (20 - 24 Credit Hours)		Credit Hours
	Network Administration Specialization Sequence	12
	Approved CIT Technical Courses (9-12 Credit Hours)	9-12
<b>Track Subtotal</b>		<b>21 - 24</b>

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<b>NETWORK ADMINISTRATION SPECIALIAZION SEQUENCES</b>
<b>**Choose (1) Sequence</b>

<b>Program Description</b>
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Microsoft Windows Administration Specialization Sequence (12 Credit Hours)		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 Series	3	
<b>Sequence Subtotal</b>		<b>12</b>	

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.

Cisco Network Associate – Specialization Sequence (12 Credit Hours)		Credit Hours	Semester Taken
CIT 167	Routing & Switching Essentials	4	
CIT 209	Scaling Networks	4	
CIT 212	Connecting Networks	4	
<b>Sequence Subtotal</b>		<b>12</b>	

The Network Administration Track provides the concepts and skills needed to design, set-up, maintain and expand network and telecommunications systems. The curriculum provides specific training in Cisco, and/or Microsoft network systems. Upon completion of the track, the graduate will be qualified to take industry designed and recognized certification examinations. Employment opportunities include entry-level positions in installation and administration of local and wide area networks in medium to large businesses and organizations, and computer network administration positions in small businesses.

Approved CIT Technical Courses (8 - 12 Credit Hours) (Choose (2 - 3) Courses)		Credit Hours	Semester Taken

**Upon completion of this program, the graduate can:**

1. Set up and manage user accounts including e-mail and Internet capability .
2. Install and maintain vendor-specific network components including servers, workstations, printers and communication infrastructure.
3. Analyze business information needs and design vendor-specific network solutions to enhance productivity and competitiveness.
4. Explain how the OSI (Open Systems Interconnection) model relates to development and troubleshooting of network communications.
5. Implement TCP/IP (Transmission Control Protocol/Internet Protocol) addressing and subnetting schemes.
6. Design communications solutions in an enterprise environment.
7. Implement a disaster recovery protection plan

**\*\*Technical Course Notes:**

- Or other courses approved by Computer & Information Technologies Program Coordinator.
- Students may choose CIT 290 or COE 199 for a maximum of 3 credit hours.
- Students may NOT use one course to fulfill multiple requirements

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**Total Credit Hours: 60-63**