Student Name:

Computer & Information Technologies: Network Administration Track (64 - 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: 110101708 Academic Program Code: ENTC

General Educ (15 credit ho		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	3	
	Course		
	Subtotal	15	

Core Requirements		Credit	Semester
(29 Credit Hours)		Hours	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	3	
	Language Course		
CIT 291	CIT Capstone	3	
	Subtotal	29	

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

Approved Level I Programming Language		Credit	Semester
Courses (Courses (Choose (1) Course)		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:

- 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. (<u>Examples</u>: Online registration, drop/add, or change of class sequence.)
- Students that are currently taking Developmental Math Courses should work towards completing MAT 150 as soon as possible.
 - 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.
- 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 <u>required</u> 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	85	74
	(Algebra)		

Network Administration Track	Credit
(20 - 24 Credit Hours)	Hours
Network Administration Specialization	12
Sequence	
Approved CIT Technical Courses	8-12
(Choose 2 to 3 Courses) (8-12 Credit Hours)	
Track Subtotal	20 - 24

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**Choose (1) Specialization Sequence

Microsoft '	Windows Administration	Credit	Semester
Specialization Sequence (12 Credit Hours)		Hours	Taken
CIT 213	MS Client/Server Config	3	
CIT 214	Server Infrastructure Admin	3	
CIT 261	MS Active Directory Services	3	
CIT 264	MS Server Admin	3	
	Sequence Subtotal	12	

Cisco Network Associate – Exploration Specialization Sequence (12 Credit Hours)		Credit Hours	Semester Taken
CIT 210	Routing Protocols and Concepts	4	
CIT 211	LAN Switching and Wireless	4	
CIT 212	Accessing the WAN	4	
	Sequence Subtotal	12	

	ork Associate – Discovery on Sequence (12 Credit Hours)	Credit Hours	Semester Taken
CIT 163	Small-Medium Office or ISP	4	
CIT 164	Intro to Routing and Switching	4	
CIT 165	Network Design and Support	4	
	Sequence Subtotal	12	

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

**Technical Course Notes:

- May choose any CIT Course(s), (EXCEPT CIT 103), or other courses approved by Computer & Information Technologies Program Coordinator.
- Students may choose CIT 280 or COE 199 for a maximum of 3 credit hours.
- Students may <u>NOT</u> use one course to fulfill multiple requirements

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 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.

Upon completion of this program, the graduate can:

- Set up and manage user accounts including e-mail and Internet capability.
- Install and maintain vendor-specific network components including servers, workstations, printers and communication infrastructure.
- 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.

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7. Implement a disaster recovery protection plan.

Total Credit Hours: 64 - 68