Student Name: _____

Computer & Information Technologies : Information Security Specialist *(19 Total Credit Hrs)*

Maysville Community & Technical College — Open Admissions Certificate

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: 1101013339 **Academic Program Code:** ENTC

Certificate Requirements *(19 Credit Hours)*		Credit Hours	Semester Taken
	Level I Networking Course	4	
CIT 180	Security Fundamentals	3	
CIT 182	Perimeter Defense	3	
CIT 184	Attacks and Exploits	3	
	Approved Security Elective Courses	6	
	Total	**19**	

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 Security Elective Courses *(Choose (2) Courses)*		Credit Hours	Semester Taken
CIT 284	Computer Forensics	3	
CIT 285	Windows OS Security	3	
CIT 286	UNIX / Linux OS Security	3	
CIT 287	Cisco OS Security	3	
CIT 288	Network Security	3	

Information Security Specialist Certificate Information

Upon completion of this Certificate program, the graduate can:

1. Explain the fundamental principles of information security.
2. Prepare for the common attacks and exploits against computers and networks.
3. Apply data security methodologies in situational cases to scan network computers and applications for vulnerabilities.
4. Configure firewalls and other perimeter defenses against attacks.
5. Install and configure intrusion detection software.
6. Describe basic functions of the Linux operating system.
7. Demonstrate a working knowledge of an elective security topic, such as operating system security, network security, computer forensics, or another selected security topic.
8. Recognize and recall major elements and methods of securing networks and workstations.
9. Identify basic attributes, purposes, and functions of network components including wireless technologies.
10. Assess the security needs of computer and network systems to recommend safeguard solutions for maintenance of security devices, systems, and procedures.

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. **MAT 65 AND CIT 111 must be completed before enrolling into a Level I Networking course; OR Consent of Instructor.**
3. **CIT 214 OR 262 must be completed before enrolling into CIT 285; OR Consent of Instructor.**
4. **CIT 217 must be completed before enrolling into CIT 286; OR Consent of Instructor.**
5. **CIT 165 OR CIT 212 must be completed before enrolling into CIT 287; OR Consent of Instructor.**
6. Certificates may also be completed prior to or while earning an AAS degree. (Refer to MCTC's CIT Program Website).
7. In order to graduate and obtain a Certificate, a student must earn a minimum grade of "C" in ALL courses required by the Certificate.
8. Required minimum ACT or COMPASS placement scores are listed below:

	Math	Reading	Writing
COMPASS	42 (Pre-Algebra)	80	64

Information Security Specialist Certificate Information

The Information Security Specialist Certificate offers students the opportunity to earn a credential demonstrating the fundamentals of information security. This certificate consists of the core skills that students need to effectively build and maintain information security systems. In addition, this certificate will provide a way for professionals currently in the industry to update their information security skills and for new students to show progress in the CIT program.

Total Credit Hours: 19