

Student Name: _____

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

Maysville Community & Technical College

Open Admissions

Certificate

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Academic Plan Code: 1101017089

Academic Sub Code: 1101013339

Academic Program Code: ENTC

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

Approved Level I Networking Courses (Choose <u>1</u> Course)		Credit Hours	Semester Taken
CIT 160	Intro to Networking Concepts	4	
CIT 161	Introduction to Networks	4	

Approved Security Elective Courses (Choose <u>2</u> 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	

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 must be completed before enrolling in Level I Networking course; OR consent of Instructor.**
3. **MAT 85 must be completed before enrolling into CIT 111; OR Consent of Instructor.**
4. Certificates may also be completed prior to or while earning an AAS degree. (Refer to MCTC's CIT Program Website) .
5. Students may only use a course with a grade of "C" or higher to fulfill a core or track graduation requirement or a certificate requirement.
6. Required minimum ACT, TABE, KYOTE or COMPASS placement scores for

	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

Information Security Specialist Certification 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 .

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.

Total Credit Hours: 19