

2020-2021

## Information Systems: Cyber Security Certificate of Achievement

Complete the following program of study (Major C.6932.CA). Major requirements (20 units minimum).

This program provides students with the knowledge, training, and hands-on experience to pursue a career and gain professional certification (CompTIA) as an Information-Technology Cyber Security Technician professional in a business, government, or education environment. Students completing this program of study will be able to enter the cyber security workforce in areas such as security analyst, or penetration tester with a comprehensive understanding of computer hardware, system software, networking essentials, as well as the intermediate skills to protect computer networks against malicious attack, and to use currently available tools to perform network testing, penetration, and assessment of target networks.

Name: \_\_\_\_\_ Student ID: \_\_\_\_\_ Date: \_\_\_\_\_

### Course Overview and Selection

#### Required Core:

Course	Course Description	Units	Completed	In Progress	Planned
IS 15	Computer Concepts	3			
IS 62	Computer Troubleshooting and Maintenance	4			
IS 63	Computer Networking Fundamentals	3			
IS 70	Introduction to Information Systems Security	3			
IS 71	Introduction to Cybersecurity: Ethical Hacking	3			
IS 72	Computer Forensics Fundamentals	3			
IS 66 or OT 17	Office and Customer Skills for Technicians(2) <i>or</i> Job Retention and Responsibilities (1)	1-2			

#### Program Learning Outcomes:

1. Evaluate the computer network and information security.
2. Assess cybersecurity risk management policies in order to adequately protect an organization's critical information and assets.
3. Evaluate the performance of security systems within an enterprise-level information system.
4. Troubleshoot, maintain, and update an enterprise-level information security system.
5. Implement continuous network monitoring and provide real-time security solutions.
6. Formulate, update, and communicate short- and long-term organizational cybersecurity strategies and policies.

#### Comments: