

Advanced Cybersecurity Certificate of Accomplishment - Active

Department: Computer Networking & Information Technology

Approval: September 2016

Effective Semester: Spring 2017

This certificate includes instruction in security risks and protection techniques for mobile devices, Web applications, and telephone networks, and how to manage information security programs. Students completing this certificate program will be qualified for employment as incident response specialists, Chief Security Officers, or malware analysts, and be able to prepare for the (ISC)² Certified Information Systems Security Professional exam.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of units or classes completed per semester.

Learning Outcomes

Upon completion of this program, students will be able to:

- Describe common cybersecurity threats and defenses, prioritize them, and properly implement defenses such as firewalls and intrusion defense systems
- Analyze systems for evidence of abuse or intrusions
- Perform advanced attacks and defend against them
- Communicate with management effectively and clearly, and prepare security management policies

Courses Required for the Certificate of Accomplishment in Advanced Cybersecurity

Course	Units
Core courses:	
CNIT 124 - Advanced Ethical Hacking	3.00
CNIT 125 - Information Security Professional Practices	3.00
CNIT 126 - Practical Malware Analysis	3.00
CNIT 127 - Exploit Development	3.00
CNIT 128 - Hacking Mobile Devices	3.00
	Total: 15.00
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