

# CYBERSECURITY AND DIGITAL FORENSICS CERTIFICATE (OCE ONLY)

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The program is offered only through Online and Continuing Education (OCE).

Cybersecurity and Digital Forensics focuses on the theoretical and practical applications of computer systems security and cyber security. This program is valuable to those who are interested in the theoretical foundations of cybersecurity and the eventual application of it to challenging real-world needs. The program will adopt a hands-on approach to develop, deploy, and maintain a secure computing environment. The program also prepares students for the various certifications in Security+ and Certified Ethical Hacker, and Cybersecurity Forensic Analyst (CSFA) Certification.

## Certificate Requirements

16 credits

Code	Title	Credits
COMP 101	FUNDAMENTALS OF INFORMATION SYSTEMS TEC	3
COMP 252	SYSTEMS ADMINISTRATION AND NETWORKING CONCEPTS	3
COMP 301	DIGITAL FORENSICS	3
COMP 430	COMPUTER SECURITY	3
COMP 490	CAPSTONE PROJECT	4
<b>Total Credits</b>		<b>16</b>

## Student Learning Outcomes

Upon successful completion of the program students should be able to:

- Identify the different categories of network threats and attacks.
- Identify the appropriate defense mechanism(s) and its limitations given a network threat.
- Isolate threats that can and cannot be protected against using secure communication channels.
- Summarize defenses against network censorship and diagram a network for security.
- Define the architecture for public and private key cryptography and how public key infrastructure (pki) supports network security.