

COMPUTER FORENSICS CERTIFICATE

Program Website: <https://www.towson.edu/fcsm/departments/computerinfosci/grad/computer-forensics-certificate.html>

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The computer forensics graduate certificate prepares students for high demand IT roles such as computer/digital forensics analysts. As a specially trained cybersecurity professional, you will gain the expertise you need for this exciting, evolving career.

Modern organizations increasingly depend on network and wireless-based communication, making them more vulnerable to cyberattacks. Consequently, organizations need IT roles that specialize in “incident response” in case of such attacks and subsequent “forensic analysis” of digital evidence.

The Computer Forensics graduate certificate is designed to offer students a curriculum that provides knowledge and skills in performing forensics analysis on both traditional and mobile computing devices. This program offers students specialized instruction that covers the fundamentals of general forensics analysis and the specifics of forensic analysis of computing devices.

The program is intended for students who have a bachelor’s degree in a computing-related field and are seeking advanced study. It may also interest students who:

- Work in the information technology field and need additional academic background for professional growth.
- Have a bachelor’s degree in a discipline other than information technology and want to prepare for careers in this field.

Requirements

Admission Requirements

Application deadlines and a full listing of materials required for admission can be found on the website.

Certificate Requirements

Code	Title	Units
AIT 600	INFORMATION TECHNOLOGY INFRASTRUCTURE	3
AIT 610	SYSTEMS DEVELOPMENT PROCESS	3
AIT 650	COMPUTER & NETWORK FORENSICS AND INCIDENT RESPONSE	3
AIT 660	MOBILE DEVICE FORENSICS	3
AIT 745	CASE STUDIES IN COMPUTER FORENSICS	3
Total Units		15

This graduate certificate requires some in-person coursework outlined on the Course Schedule.

Learning Outcomes

1. Articulate the current state and evaluate the current limits in the knowledge, theory and application of computer forensics.
2. Work effectively in teams to assess, prioritize and professionally communicate computer forensic issues and solutions.
3. Compare and contrast various computer forensic techniques and assess their application to context specific problems.
4. Synthesize knowledge of computer forensics from multiple sources to design and present solutions to emerging government and industry computer forensics problems