

Graduate Information Systems Cybersecurity Certificate

Degree Requirements

The School of Computing is responding to its industry need for a skilled workforce in Cybersecurity.

Training cybersecurity professionals to support and defend our nation's critical infrastructure continues to be crucial for the defense and health of our national economy. Continued security breaches against these systems requires advanced educational training to combat these threats. The goal of the graduate information systems cybersecurity certificate is to ensure educational relevancy in the identification and defense of current cyber threats to critical infrastructure in both the public and private sector.

The information systems certificate includes courses in information security, digital forensics, and network security as these have been deemed critical to the advancement of cybersecurity by the National Science Foundation.

This certificate can be completed by both graduate-level degree and non-degree seeking students that have completed an appropriate computing undergraduate degree. All of the courses currently exist within the School of Computing and would not require any additional resources. The proposed information systems cybersecurity graduate certificate requires 15 graduate credits.

All courses must be completed (15 credits)

Graduate Information Systems Certificate in Cybersecurity	Course Title	Credit Hours
CIS 530	Information Assurance and IT Auditing	3 hrs
CIS 535	Digital Forensic Analysis	3 hrs
CIS 538	Operating Systems Concepts and Security	3 hrs
CIS 540	Network Security Management	3 hrs
ISC 565	Information Systems Project and Change Management	3 hrs

Department Information

Department of Information Systems and Technology Staff

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Information Systems

The Information Systems (IS) discipline centers on the development of systems that will improve the performance of people in organizations. Information Systems professionals design, implement, and maintain the information systems that form the backbone of today's global economy. Information Systems graduates pursue professional careers as application developers, database analysts, systems analysts, IS project managers and directors. The combination of business, technical, and interpersonal skills are what recruiters seek in IS graduates.

Health Informatics

Technology is revolutionizing the way that healthcare is delivered both in the United States and around the world. The Health Informatics discipline focuses on improving patient care and outcomes through the use of information systems. Health Informaticists accomplish this in three main ways: supporting the healthcare provider, improving the efficiency and effectiveness of the healthcare organization, and empowering the patient to be more involved in their own care. Health Informatics graduates pursue professional careers with hospitals, large clinics, healthcare software vendors, and various state and federal agencies. The combination of healthcare, technical, and interpersonal skills allow HI graduates to enter these organizations and be productive immediately without the additional training that other traditional technologists may require. Health Informatics is a rapidly growing field that provides graduates who save lives and impact society through the use of technology.

Information Technology

Information technology professionals utilize state-of-the-art, computer-based tools to deliver today's rapidly evolving computing technology to knowledge workers in widely diverse situations. The information technologist must be prepared to work in the complex network and World-Wide-Web environments to meet the needs of the end users in today's organizations. These tasks require bringing solutions together using the different technologies developed by the computer engineers, computer scientists, and information scientists.