CYBERSECURITY, UNDERGRADUATE CERTIFICATE

The security of information resources and associated technologies has become critical in today's interconnected world. Cybersecurity professionals ensure information is protected from data breaches, unauthorized access, and data security threats.

Information Security Certificate students will leverage their technical knowledge with problem-solving skills to address the growing threats arising from cyberattacks and information privacy intrusions. Students will be equipped with the skills needed to assess risks to the security of personal and proprietary information in an organization and articulate the technical, organizational, and human factors associated with these risks.

About

Information Security jobs are among the fastest-growing careers nationally. The Department of Labor's Bureau of Labor Statistics predicts that "Employment of information security analysts is projected to grow 33 percent from 2020 to 2030, much faster than the average for all occupations." (https://www.bls.gov/ooh/computer-and-information-technology/information-security-analysts.htm).

Students will learn to evaluate information technology tools designed to protect against threats facing organizations and assess the impact of security policies on existing complex systems and organizational objectives while considering regulatory requirements and compliance. Students will be well equipped to oversee the information security life cycle of an organization, including planning, acquisition, development, and evolution of secure infrastructures.

The undergraduate certificate in Cybersecurity will provide a documented credential that an informal track of courses does not reflect. As a certificate, it could also be completed independently of the Bachelor of Science in Information Science & Technology (BSIST) program.

Graduates can work in careers such as information security analysts, penetration testers, and forensic computer analysts.

Requirements

To fulfill the requirements for the cybersecurity certificate, students must complete the following coursework with a minimum 2.5 GPA:

Code	Title	Credits
Required		
INFOST 325	Information Security I	3
INFOST 385	Information Security II	3
Electives		**12**
Select a minimum of 12 credits from the following eligible courses		
INFOST 465	Legal Aspects of Information Products and Services	
INFOST 491	Advanced Topics in Information Science & Technology: (Relevant courses such as Web Application Penetration Testing)	
INFOST 660	Information Policy	
INFOST 661	Information Ethics	
INFOST 691	Special Topics in Information Science: (Relevant courses such as Computer Forensics)	
INFOST 695	Ethical Hacking I	
INFOST 696	Ethical Hacking II	
INFOST 697	Cisco Routing & Switching I	
COMPSCI 469	Introduction to Computer Security	
BUS ADM 530	Privacy and Information Security for Business	
Total Credits		**18**