

Diploma in Cybersecurity

Credits: 30

Program Description

A program that focuses on the technological and operational aspects of information warfare, including cyber-attack and cyber defense. Students will learn the role of an information technology security specialist, demonstrate compliance and operational security, the use of ethical hacking, how to prevent IT attacks, the use of physical security, and the proficiency in network device security and access control models, legal and ethical issues, and cyber warfare systems development and acquisition.

Program Outcomes

1. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
2. Apply knowledge in the digital and networks tools and resources to communicate effectively in a variety of professional contexts.
3. Apply knowledge of different components of modern operating systems by performing general computer and system operations such as installation, setup, and configuration, as well as accounts and application management.
4. Analyze a complex computing problem and apply computing principles and other relevant disciplines to identify solutions.
5. Function effectively as a member or leader of a team engaged in activities appropriate to cybersecurity.
6. Identify, assess risk, and apply security principles and practices to maintain operations in the presence of risks and threats in computers and networks.

Program sequence will be available at the time of enrollment.

The language of instruction and program delivery modality are subject to availability.

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Course			
Course	Title	Credits	Prerequisites
MATH 112 ON	College Algebra	3	
COIS 120	Principles of Computing	3	
COIS 121	Introduction to Programming	3	
COIS 205	Programming II	3	COIS 121
CYBS 110	Introduction to Cybersecurity	3	
CYBS 210	Network Security	3	
COIS 230	Computer Networks and Architecture	3	COIS 120, COIS 121
CYBS 230	Linux System Administration and Security	3	COIS 120, COIS 121
COIS 242	Operating Systems	3	COIS 230, COIS 205
CYBS 250	Digital Forensics and Incident Response	3	COIS 230, COIS 205
TOTAL CREDITS		30	

Notes:

1. This program may be offered in English or Spanish according to demand. COMPLETING A COURSE OR PROGRAM IN A LANGUAGE OTHER THAN ENGLISH MAY REDUCE EMPLOYABILITY WHERE ENGLISH IS REQUIRED.
2. Students must abide with the minimum required hours and policies set by the state and local education agencies for practicum experiences, as applicable.
3. Students must comply with state and local education certification requirements for the diploma program, as applicable.
4. Graduation GPA: 2.00