

Associate in Science in Cybersecurity

Credits: 66

Program Description

The Associate in Science in Cybersecurity program gives students the necessary knowledge, skill, and abilities to address today's organizational cybersecurity challenges. Given the substantial number of risks, threats, and challenges facing organizations, graduates of this program will be prepared to identify and analyze cybersecurity-related issues and implement and maintain technical security-based solutions that address these risks and threats. Students will be able to implement technical methods to address an organization's security needs.

Program Outcomes

1. Analyze a broadly defined security problem and apply principles of cybersecurity to the design and implementation of solutions.
2. Apply security principles and practices to maintain operations in the presence of risks and threats.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to cybersecurity.

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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QYLE 110 or FYIS 101	Attitude Development and University Adaptation or Induction Seminar to University Life	3	Must be taken in the 1st term of enrollment
TOTAL		3	
General Education Courses			
Course	Title	Credits	Prerequisites
ENGL 150	English Composition I	3	
ENGL 250	English Composition II	3	ENGL 250
HUMA 101	World Cultures I	3	
MATH 112ON	College Algebra	3	
SOSC 101	Introduction to Social Science I	3	
SCIE 111	Integrated Science I	3	
Pick 1 GE*	Pick one (1) of the Approved General Education Electives	3	
TOTAL		21	
Core/ Professional Courses			
Course	Title	Credits	Prerequisites
MATH 222	Discrete Mathematics		MATH 112ON
COIS 120	Principles of Computing		
COIS 121	Introduction to Programming		
COIS 205	Programming II		COIS 121
COIS 230	Computer Networks and Architecture		COIS 120, COIS 121
COIS 242	Operating Systems		COIS 230, COIS 205
COIS 250	Systems Analysis & Design		
TOTAL		21	
Major Courses			
Course	Title	Credits	Prerequisites
CYBS 110	Introduction to Cybersecurity		
CYBS 210	Network Security		
CYBS 220	Cybercrime and Cyber Law		CYBS 230
CYBS 230	Linux System Administration and Security		CYBS 120, COIS 121
CYBS 240	Cybersecurity Risk Management and Compliance		CYBC 230
CYBS 250	Digital Forensic and Incident Response		COIS 230, COIS 205
CYBS 260	Applied Cryptography		CYBS 230, CYBS 250, CYBS 220
TOTAL		21	
TOTAL CREDITS		66	

Approved General Education Electives*		
Course	Title	Credits
SPAN 110	Elementary Spanish	3
REIL 101	Research and Information Literacy	3
BIOL 150	General Biology I	3
BIOL 151	General Biology II	3
COMM 205	Communication Theory	3
COMM 210	Legal and Ethical Aspects of Communications	3
HIDE 100	History of Arts	3
HIDE 110	Representing Culture: Art & Artifact 1500-1850	3
HIST 273	History of the United States of America	3

Notes:

1. This program may be offered in English, Bilingual mode (English-Spanish), or Spanish according to demand. COMPLETING A COURSE OR PROGRAM IN A LANGUAGE OTHER THAN ENGLISH MAY REDUCE EMPLOYABILITY WHERE ENGLISH IS REQUIRED.
2. Graduation GPA: 2.00