

INFORMATION TECHNOLOGY, B.S. - CYBERSECURITY

The Cybersecurity Concentration adds to the fundamental topics in Information Technology that INTE students learn through the program's core requirements, providing students with the necessary and durable skills needed to effectively protect personal and organizational information systems and tomorrow's technological threats and risks in the cyber world.

There is a huge demand in Cybersecurity experts in industry including non-tech companies. Cybersecurity training is the practice of implementing policies, processes, and technologies to protect organizations and their critical information systems and sensitive data from digital attacks.

The Cybersecurity concentration in INTE program provides training that helps students develop technical skills to identify threats and recognize system vulnerabilities to mitigate cybersecurity risks and respond to cyberattacks. This concentration teaches students the risk-management strategies, and how to identify security risks. Students will also learn how to develop communication plans for interacting with businesses and their users when it comes to integrating Cybersecurity plans. Students will practice methods on how to align Cybersecurity strategies with business operations by the benefit of communication management. As part of risk assessment strategies, the program teaches students how to make prediction of potential problems before they turn into genuine threats.

Major in Information Technology, BS

Code	Title	Hours
INTE 120	Integrated Information Technology Application Projects	4
INTE 130	Fundamentals of Information Technology	4
INTE 230	Network Concepts, Security and Administration	4
INTE 240	The Fundamentals of Web Technology	4
INTE 360	IT Risk Management and Security	4
INTE 410	IT Project Management	4
INTE 420	Fundamentals of Operating Systems Management	4
INTE 440	Human-Computer Interaction	4
OPTION IN CYBERSECURITY - See separate block		
Total Hours		32

Option in Cybersecurity

Code	Title	Hours
CYBERSECURITY REQUIREMENTS		
Advanced Computer Networking or Computer Networks - Choose 1 of the following:		
INTE 335	Advanced Computer Networking	
CSCI 395	Computer Networks	
INTE 350	Cybersecurity	4
INTE 435	IT Security, Privacy & Ethics	3
Internship in Cybersecurity		12
INTE 400	Co-Op/Internship INTE	
Cybersecurity Elective - Choose 2 of the following:		
INTE 465	Data Analytics in Health Care	
INTE 466	Ethical Hacking and Penetration Testing	

CSCI 415	Computer and Network Security	
Total Hours		28-30

Req Related for Information Technology, BS

Code	Title	Hours
COMPUTER SCIENCE		
CSCI 161	Introduction to Programming 1 (G2)	4
CSCI 162	Introduction to Programming 2	4
CSCI 366	Database Systems	4
MATHEMATICS		
Statistics (G2) - Choose 1 of the following:		3-4
MATH 130	Elements of Statistics 1	
MATH 234	Statistics for Health Sciences	
MATH 235	Survey of Statistics	
MATH 120	Logic for Information Technology	2
ECONOMICS		
ECON 102	Principles of Microeconomics (G3)	3
RECOMMENDED COURSES (NOT REQUIRED)		
These courses are recommended, but not required. They are advised as complimentary courses which can fulfill the General Education requirements noted		
COMM 335	Communications and Emerging Technologies (G1, W)	0
MATH 151	Calculus for Management, Life and Social Sciences	0
Total Hours		20-21