Agilar Duginass Value Analysis

Cybersecurity & Networking - Bachelor of Science in Information Technology

The Bachelor of Science in Information Technology with a major in Cybersecurity & Networking addresses the technology and processes used by IT and Network professionals to protect an organizations' computer systems and networks from digital attacks. This program provides hands on instruction in computing, routers and switches with a focus on security including designing secure networks, penetration testing, cryptography, and ethical hacking. Additionally, students who complete the program will obtain a strong background in technology including database, problem-solving, systems analysis, and project management skills as well as a foundation in the politics of cybersecurity. Students are prepared for the following professional certifications: Certified Ethical Hacker, Cisco CCNA Routing & Switching, Cisco CCNA Security, CompTIA Cybersecurity Analyst, CompTIA Network+, CompTIA Security +, ICAgile ICP, ICAgile ICP-FDO, and Microsoft MCSE.

Credit

Program Requirements

Select 6 hours from the following: 1

CIT 102

CIT 201

CIT 231

CIT 253

Code

		Hours	
Information Technology Core			
CIT 168	Information Technology Tools and Techniques for Organizations	4	
CIT 205	Agile Launchpad I	3	
CIT 214	Database Design and Development	3	
CIT 262	Technology, Ethics, and Global Society	3	
CIT 268	Introduction to Human-Computer Interaction	3	
CIT 273	Web Application Development	3	
CIT 348	Information Management and Retrieval	3	
CIT 357	Current Practices in Information Technology	3	
CIT 376	IT for Organizations	3	
CIT 448	Global and Strategic Issues in Information Technology	3	
CIT 457	IT Project Lifecycle I: Requirements and Design	3	
CIT 458	IT Project Lifecycle II: Implementation and Deployment	4	
CSE 163	Introduction to Computer Concepts and Programming	3	
Technical Electives			

Digital Media and Design Tools

Contemporary Programming

Around the World

Languages

Advanced Spreadsheets and Analytics

Healthcare Information Technology

Total Credit Ho	urs	96
STC 135	Principles of Public Speaking	3
or STA 301	Applied Statistics	
STA 261	Statistics	4
MTH 122	College Algebra (or higher)	3
or EGS 215	Workplace Writing	
ENG 313	Technical Writing	3
ENG 111	Composition and Rhetoric	3
EGS 305	Integrative Writing in Global Contexts	3
Other Required	l Courses	
POL 388	Politics of Cybersecurity	3
POL 271	World Politics	3
CIT 480	Advanced Topics in Cybersecurity	3
CIT 386	Designing/Deploying Secure Networks	3
CIT 358	Information Technology Assurance and Security	3
CIT 284	Enterprise Server Installation and Configuration	3
CIT 281	Enterprise Network Infrastructure	3
CIT 263	Advanced Topics in Programming	3
CIT 258	Introduction to Global Cybersecurity	3
CIT 225	Fundamentals of DevOps [ICAgile]	3
Cybersecurity 8	& Networking Major	
CSE 274	Data Abstraction and Data Structures	
CSE 271	Object-Oriented Programming	
CSE 174	Fundamentals of Programming and Problem Solving	
CSE 153	Introduction to C/C++ Programming	
CIT 338	Business Intelligence Tools	
CIT 331	Healthcare Workflow and Process Improvement	
CIT 307	Agile: Project Management	
CIT 306	Agile: Business Value Analysis	

May not select courses used to meet other program requirements. Other technical electives must be pre-approved.