

Cybersecurity Management Certificate

The purpose of this certificate in Cybersecurity Management is provide students with technical and management skills in the area of cybersecurity. Students will use Cybersecurity skills as a consultant or as an employee helping an organization to develop and implement a Cybersecurity program or respond to security incidents. The certificate explores the management issues around areas of cybersecurity that include identify, protect, detect, respond, and recover. The Cybersecurity Management capstone (BMIS472) course is patterned after the Certified Information Systems Security Professional (CISSP) industry certification. Students will explore a variety of knowledge areas of Cybersecurity Management and apply that knowledge in an integrated project in the capstone course. The curriculum is based on the Core Knowledge Units developed by the National Security Agency (NSA) and the Department of Homeland Security (DHS). The knowledge pathways in the program are; networking technology & protocols; databases & analytics; probability & statistics; policy, legal, ethics, and compliance; cybersecurity fundamentals & practices, and cybersecurity management & planning. Students who earn the Cybersecurity Management certificate will work for companies as consultants, Chief Information Officers, or Chief Security Officers focusing on the management issues around cybersecurity.

Cybersecurity Management Pathways

Cybersecurity Management – Foundation Course: Network, Protocols, & Sys. Admin. Knowledge Pathway	3
Cybersecurity Management – Programming & Scripting Knowledge Pathway	3
Cybersecurity Management – Databases, Analytics, & Statistics Knowledge Pathway	3
Cybersecurity Management – Policy, Legal, Ethics, & Compliance Knowledge Pathway	3
Cybersecurity Management – Cybersecurity Management & Planning Knowledge Pathway	3
Cybersecurity Management – Capstone Course: Cybersecurity Fundamentals & Practices Knowledge Pathway	3
Total Hours	18

<p>Pathway 1: Foundation Course: Network, Protocols, & Sys. Admin (3 cr.):</p> <p><i>BMIS 471 Intro.to Network & Security Mgmt</i></p>	<p>Pathway 4: Policy, Legal, Ethics & Comp. (3 cr.)</p> <p><i>BGEN220E Business Ethics</i> <i>BGEN 361 Principles of Business Law</i> <i>ACTG 321 Accounting Information Systems</i></p>
<p>Pathway 2: Programming & Scripting (3 cr.):</p> <p><i>BMIS 365 Business Application Development</i> <i>BMIS 465 Real-time Analytics</i></p>	<p>Pathway 5: Cybersecurity Management & Planning (3 cr.):</p> <p><i>BMIS476/482 Project Management</i> <i>BMIS 478 E-commerce & Emerging Technologies</i> <i>BMIS 479 Intro to Consulting</i></p>
<p>Pathway 3: Databases, Analytics, & Statistics (3 cr.)</p> <p><i>BMIS 326 Intro to Data Analytics</i> <i>BMIS 370 Database</i></p>	<p>Pathway 6: Capstone Course: Cybersecurity Fundamentals & Practices (3 cr.)</p> <p><i>BMIS 472 Adv. Network & Security Man.</i></p>

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