MISSION STATEMENT AND STUDENT LEARNING OUTCOMES for
Cybersecurity and Networking

Review Year: 2024

Division:	Discipline/Program/Department:	Contact Person(s):
BHSHS	Cybersecurity and Networking	Brewer, Carolin

Mission Statement

The Cybersecurity and Networking certificate program provides students with a foundational knowledge in information technology and/or cybersecurity. It also provides students with the skills to elevate their occupational outlook and the possibility to earn valuable industry certifications.

Our Associate of Applied Science program prepares students for entry-level networking and cybersecurity occupations. The students will have the opportunity to earn industry certifications during the course of the degree program, or earn college credit for those they may already hold. Graduates will also be able to advance to a baccalaureate degree at SIU Carbondale with whom we have an articulation agreement.

Program/Discipline Curriculum Map

I = Introduce: Student is first exposed to the concept/idea and is requested to apply the concept in a limited scope.
E = Emphasize: Student applies concept(s) in varying/multiple situations of greater complexity than when initially introduced.
R = Reinforce: Student may be expected to understand the concept upon taking the course and utilizes the concept in conjunction with other concepts/ideas to solve problems.

Program/Discipline Outcomes	***Course Prefix and Number***														
Graduates of this program/discipline shall be able to:	CISC 106	CISC 116	CISC 161	CISC 162	CISC 163	CISC 164	CISC 126	NETW 101	NETW 188	NETW 211	NETW 231	NETW 271	NETW 182		
Describe networking features and functions, network technologies, media and topologies, devices, management, tools and basic skills needed by network technicians			I	I				I, E							
Demonstrate the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks, including implementation and verification of connections to remote sites in a WAN			I	E	E	R									
Identify roles of network servers and demonstrate skills related to installation, user accounts and groups, storage technologies, performance management, and troubleshooting and maintenance									I, E						
Demonstrate competency in cybersecurity and network security, compliance and operational security, threats and vulnerabilities, application, data and host security, access control and identity management and cryptography	I	I					E, R			I	I	I, E	E, R		

Map Comments:

Core Competency Map

Core Competencies	***Course Prefix and Number***														
	CISC 106	CISC 116	CISC 161	CISC 162	CISC 163	CISC 164	CISC 126	NETW 101	NETW 188	NETW 211	NETW 231	NETW 271	NETW 182		
Communication Skills															
1. Computer Literacy													x		
2. Oral Communications															
3. Writing									x	x	x				
Reasoning Skills															
4. Critical Thinking									x	x	x				
5. Quantitative Literacy															
Citizenship															
6. Personal Accountability															
7. Civic And Social Accountability															