B.S. in Computer Science with a Concentration in Cybersecurity

Learning Outcomes

After successfully completing this program, students will be able to:

1. Demonstrate a knowledge of how cyberattacks take place.
2. Demonstrate a knowledge of methods used to protect systems from cyberattacks.
3. Be able to develop defense mechanisms through scripting.
4. Demonstrate a knowledge of cyber ethics.
5. Be able to use a variety of encryption techniques and protocols.
6. Be able to design systems which facilitate recovery from disaster.
7. Demonstrate a knowledge of cloud security and IoT security.
8. Be able to analyze cyber threat intelligence and the dark web.
9. Properly investigate who is responsible for a cyberattack.
10. Demonstrate a knowledge of how organizations should respond to cyber attacks.
11. Demonstrate a knowledge of software security (including programming security).
12. Demonstrate a knowledge of advanced network security.
13. Monitor and audit information systems.
14. Demonstrate a knowledge of the management of various aspects of security involving personnel, accounts, assets, change, risk, and network security.
15. Test system security.
16. Analyze a security breach's impact on business.
17. Demonstrate a knowledge of organizational policies and cyber governance.