Safeguarding sensitive data, such as health information, property, and information systems are more important than ever. Protect organizations against cybercrime.

Sioux City
Community
Schools
believe... achieve... succeed

Pathway Description:

This 1-year regional pathway is designed to fill a critical and growing need for cybersecurity personnel in the public and private sector. Students will learn about investigating computer crimes, properly seizing and recovering computer evidence, and aiding in the prosecution of cybercriminals. To combat computer-related crime, students in the Cyber Security and Digital Crime program will also understand countermeasures against hacking, spam, and computer viruses through network intrusion detection and evidence gathering.

Key Competencies:

- Understand the architecture of computer systems.
- Explore the operational means by which computers store, process, and interact with other computers and devices.
- Discover the technologies and principles involved in creating a secure computer-networking environment.
- Understand authentication, types of attacks and malicious code, threats, and countermeasures for e-mail, web applications, remote access, file and print services, intrusion detection systems, firewalls, physical security concepts, security policies, disaster recovery, and computer forensics.
- Interpret the Python language through automating tools, simple programs, and graphical user interfaces.

Courses (HS Credits):

9GG7   Fundamentals of Computers & Networks (2)
9G96   Fundamentals of Network Security (2)
9GG4   Python for Cyber Security Professionals (4)

Total College Credits: 9

Annual National Average Salary for a Cyber Security Engineer: $120,700

Career Opportunities:

Cyber Security Engineer	Forensic Computer Analyst
Information Security Officer	

SIOUX CITY
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Pathways to the future