Today’s digital threats continue to evolve and become increasingly more complex. The cybersecurity profession is entwined with computer information technology and the businesses and industries that rely on computer technology for their daily operations. In our increasingly connected world, demand for cybersecurity professionals continues to grow as companies improve protection of data and digital assets.

Organizations need people with the knowledge and skills required to effectively respond to cyber threats by leveraging intelligence and threat detection techniques, identifying and addressing vulnerabilities, and analyzing and interpreting data. Skilled cybersecurity professionals are needed to secure, defend, manage, and respond to threats in the energy, oil and gas industries, financial, government, healthcare, retail and manufacturing industries.

### Career Opportunities

Demand for information security professionals is expected to continue to grow. Cyberattacks have escalated in frequency, and cybersecurity professionals are needed to develop innovative solutions to prevent bad actors from stealing critical information or compromising computer networks. Banks and financial institutions, hospitals and healthcare facilities, educational institutions, and other organizations, will all need to improve their information security capabilities in the face of growing cybersecurity threats.

According to the Bureau of Labor Statistics, the employment of information security professionals is projected to grow 28 percent from 2016 to 2026, much faster than the average of occupations.

### What Will I Study?

The cybersecurity curriculum prepares graduates for employment with organizations that assess the security needs of computer and network systems, recommend safeguard solutions, and manage the implementation and maintenance of security devices, systems, and procedures. Upon completion of the program, students will be able to:

- Analyze and determine the cybersecurity needs of an organization.
- Identify and utilize cyber forensics tools.
- Measure the performance of cybersecurity systems and troubleshoot within an enterprise-level information system.
- Create and communicate organizational cybersecurity strategies and policies.

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**For More Information:**

Website:  [www.alvincollege.edu/cybersecurity](http://www.alvincollege.edu/cybersecurity)

Phone:  281.756.3812

Email:  [cybersecurityprogram@alvincollege.edu](mailto:cybersecurityprogram@alvincollege.edu)
This document contains the course information for a Cybersecurity program. The program is divided into multiple semesters with specific courses listed for each semester. The credits for each course are also provided. The program includes a mix of required courses and options for electives. The CYBERSECURITY section outlines the Associate of Applied Science – 60 credit hours, while the CYBERTECH section provides information on the Certificate 1 – 21 credit hours. The program costs are also detailed, providing approximate costs for the degree program, including tuition and fees. The costs vary based on residency status, with different amounts for in-district, out-of-district, and non-resident students. An additional note mentions that Alvin Community College may change tuition rates and other fees without notice or when directed by the Board of Regents. The document also includes a statement on equal opportunity and contact information for accessibility services.