



## **ASSOCIATE OF APPLIED SCIENCE DEGREE IN INFORMATION SYSTEMS & CYBERSECURITY**

**CIP Code: 11-0103**

### **Program Mission**

The mission of the (AAS) Associates of Applied Science in Information Systems and Cybersecurity emphasizes problem-solving technical skills in the application of Information technology and cyber defense in the fields of information systems or cybersecurity. This mission includes providing a broad-based education through the Stellar Career College's core curriculum as well as education in current information systems or cybersecurity topics.

### **Program Description**

The Associates of Applied Science in Information Systems & Cybersecurity is a 2-year degree program that can be taken full-time or part-time and is designed for entry-level students and working adults. The program prepares students with education in network management, system and server administration, application development, cybersecurity, database development, and programming. The Cybersecurity training involves securing networks and computers. This process involves evaluating protocols, operating systems, hardware components, networking devices, and software tools to make a secure infrastructure. Courses and hands-on labs are designed to prepare students to take a variety of Cisco, Microsoft, and CompTIA certification examinations.

As a graduate with an Associate of Applied Science, you will be able to design and install secure network systems based on customer requirements, monitor, and maintain network traffic and security, and maintain network hardware and software. Students who pursue a degree in Information System and Cybersecurity will learn the skills needed to make a

positive impact on society and businesses utilizing information systems management.

## Scholarship

If you are working in the field, you may qualify for a scholarship of up to \$6,000 towards your total tuition fee for AAS in Cyber Security (Please contact us for details).

## Optional Bootcamp

Stellar Career College offers an optional Bootcamp at its Campus. This will provide opportunities for students to learn from Industry professionals in a Hands-on lab environment.

## Industry-Related Certifications

The following well-recognized and industry certifications are indeed in your AAS in Cyber Security degree program:

- Computing Technology Industry Association's (CompTIA) A+, Network+ and Security+ certifications
- Cisco Certified Network Associate (CCNA) certification
- Security Certified Network Professional certification
- EC-Council iLab Certifications

These certifications are taught in various courses in this degree program upon completion of the related specific courses the college will pay for your certification exam.

## We Accept Trans Credits

Your Tuition fee will change depending on how many transfer credits will be accepted. Your total tuition fee for AAS in Information Systems and Cyber Security will be, if you attend:

<b>2 Quarters</b>	<b>3 Quarters</b>	<b>4 Quarters</b>	<b>5 Quarters</b>	<b>6 Quarters</b>
\$7,066	\$10,599	\$14,132	\$17,665	\$21,198

## Program Details

### Course Duration

15 - 21 Months

### Quarter Credit Hours

90

## Program Learning Outcomes

At the end of the program learning, Graduates should be able to:

- Contribute to the evolving dimensions of Information Technology (IT) related to cybersecurity.
- Utilize Labs and hands-on activities using industry-related certification material throughout the curriculum.
- Conduct the seven main categories of cyber operations as defined by the ‘National Cybersecurity Workforce framework’ in the areas of secure provision, maintenance, and operation, protect and defend, investigate, collect, and operate, analyze and provide oversight and development.
- Identify security vulnerabilities, threats, attacks, and tools to help mitigate security risks.
- Provide input for information systems and cybersecurity operational plans for individuals, corporations, governmental services, and/or the national community.
- Effectively communicate cyber threats and technical remediation strategies in verbal and written formats.

## Program Career Opportunity

The National Cybersecurity Workforce Framework and the U.S. Department of Labor have identified potential job opportunities for graduates of information systems and cybersecurity programs that include, but are not limited to:

1. Information Security Analyst
2. Information Systems Security Engineer
3. Vulnerability and Penetration Testers
4. Firewall Engineer
5. Network Engineer
6. Software Developers
7. Database Administrators
8. Web Developers
9. Cybersecurity Analyst
10. IT Project Manager
11. Computer Systems Analyst
12. Health Information Managers
13. Application Developer
14. Intrusion Detection System (IDS) administrator, engineer, or technician
15. Network Administrator
16. Computer Crime Investigator
17. Cybersecurity analyst

The (AAS) Associates of Applied Science in Information Systems and Cybersecurity ultimately prepares entry-level computer technicians with cybersecurity expertise and offers

transfer options to four-year institutions. It is also designed to address the homeland security industry's need for trained cybersecurity workers. You can also prepare for a variety of industry certifications, including:

18. Computing Technology Industry Association's (CompTIA) A+, Network+ and Security+ certifications
19. Cisco Certified Network Associate (CCNA) certification
20. Security Certified Network Professional certification
21. EC-Council iLab Certifications

## Program Curriculum





- **General Education Core Courses** 22.5 Quarter Credit Hours
- **IS/CYB Core Courses** 54 Quarter Credit Hours
- **IS/CYB Electives** 13.5 Quarter Credit Hours

(A.A.S. Degree Program Length: Each course is 4.5 quarter credits. 11 weeks per quarter and a total of 45 quarter credits in a year. Students enrolling 15 credit hours per quarter will earn around 45 credit hours at the end of the year. Each course is 11 weeks long. Students take 3-4 courses per quarter.)

## Laboratory Plan

Register with EC-Council iLabs for all cybersecurity lab activities in the core courses. iLabs is the ultimate resource for every IT Professional looking to learn more or hone their skills in Hacking, Penetration Testing, Computer Forensics, Secure Coding, etc

iLabs available in these Areas

 <p><b>Ethical Hacking Exercises</b></p> <p>iLabs Secure Programming Exercises map 100% to the content in our Certified Ethical Hacker Training program.</p>	 <p><b>Computer Forensics</b></p> <p>iLabs Computer Forensics Exercises map 100% to content in our Computer Hacking Forensics Investigator Training program.</p>
 <p><b>Secure Programming</b></p> <p>iLabs Ethical Hacking Exercises map 100% to the content in our globally recognized Certified Ethical Hacker Training program.</p>	 <p><b>Incident Handling Exercises</b></p> <p>iLabs Computer Forensics Exercises map 100% to content in our Computer Hacking Forensics Investigator Training program.</p>

## Program Format

The College will offer this program using the Hybrid format of instruction delivery. Didactic courses will be taught using online and virtual technologies, while laboratory courses will be

offered using virtual technologies and/or on-site format of instruction delivery. The students will complete the required clinical hours and competencies at their respective clinical sites.