



Applied Cybersecurity

Available at SRHS

DOE Program Structure

Grade	Course	Credit
9 th	Digital Information Technology PA	1
10 th	Computer and Network Security Fundamentals H	1
11 th	Cybersecurity Essentials H	1
12 th	Operational Cybersecurity H	1

H=Honors Level **PA**=Practical Arts

Topics Covered

- ✓ employability skills
- ✓ basic security systems
- ✓ Intrusion Detection Systems
- ✓ network traffic monitoring
- ✓ firewalls and other means of intrusion prevention
- ✓ cryptographic algorithms
- ✓ cyber-attack mechanisms
- ✓ Open Systems Interface model

Internship Opportunity

Students may enter an internship during their senior year with a local industry partner.

Post-Secondary Opportunity

Articulation to be determined with IRSC.

- Information Technology Support Specialist Certificate
- Information Technology Management and Cyber Security Bachelor of Science

What is Cybersecurity?

Cybersecurity is the protection of computer systems from the theft of or damage to their hardware, software, or electronic data, as well as from the disruption or misdirection of the services they provide. This program includes but is not limited to foundational knowledge and skills in computer and network security, security vulnerabilities, attack mechanisms and techniques, intrusion detection and prevention, cryptographic systems, system hardening, risk identification, incidence response, penetration testing, key management, access control, and recovery.

Industry Certification

Students have the opportunity to earn multiple industry certifications, such as Microsoft Technology Associate-Security Fundamentals and Certified Web Security Associate. (Subject to Change)



Career Outlook

Median wage: \$41.33 hourly/ \$76,420 annual
Listed as an Enterprise Florida targeted industry
<https://www.enterpriseflorida.com/data-center/florida-industries/>

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Dr. Mara Schiff ● Jacqueline Rosario ● Laura Zorc ● Teri Barenborg ● Tiffany M. Justice
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