



The Cybersecurity program of study includes the occupations and educational opportunities related to planning, implementing, upgrading, or monitoring security measure for the protection of computer networks and information. This program of study may also include exploration into responding to computer security breaches and virus and administering network security measures.

## NISD Secondary Magnet Courses for High School Credit

### Level 1

- AP Computer Science Principles #7104
- Principles of Business, Marketing & Finance #8203 (Elective only)

### Level 2

- Cyber Internetworking I #8544
- Cyber Internetworking I D #8595 (2023-2024 SY)

### Level 3

- Cyber Internetworking II #8548
- Cyber Internetworking II D #8596 (2024-2025 SY)

### Level 4

- Practicum in Information Technology- Cybersecurity VEI (2CR) #8549
- Practicum in Information Technology- Cybersecurity (2CR) #8725
- Practicum in Information Technology- Cybersecurity D (2CR) #8597 (2025-2026 SY)

## Postsecondary Opportunities

### Associates Degrees

- System Networking, and LAN/WAN Management
- Information Technology
- Computer and Information Sciences, General
- Computer Science

### Bachelor's Degrees

- Computer Systems Networking and Telecommunications
- Computer Systems Networking and Telecommunications
- Computer and Information Sciences, General
- Computer Science

### Master's, Doctoral, and Professional Degrees

- Computer Systems Analysis/Analyst
- Information Technology
- Computer Information Sciences, General
- Computer Science

## Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> <li>• Join TSA</li> <li>• Job shadow a computer system analyst or information security analyst</li> </ul>	<ul style="list-style-type: none"> <li>• Obtain a cybersecurity IBC</li> </ul>

## NISD Industry-Based Certifications

- CompTIA A+ Certification
- CompTIA Network+
- CompTIA Security+

## NISD Performance Acknowledgment

- CompTIA IT Fundamentals+
- CompTIA PenTest+
- Internet and Computing Core Certification IC3
- Microsoft Office Specialist PowerPoint

- Microsoft Office Specialist-Word\*

\*IBC sunseting 8/31/24

## Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Information Security Analysts	\$91,915	814	29%
Network and Computer System Administrators	\$82,597	2,814	19%
Computer System Analysts	\$87,568	5,937	29%

## Science, Technology, Engineering, and Mathematics Career Cluster

The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

Successful completion of the Agribusiness program of study will fulfill requirements of the Business and Industry or STEM Endorsement if this math and science requirements are met. Revised – October 2022