

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.

Cybersecurity Statewide Program of Study



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.

Secondary Courses for High School Credit

Level 1

Level 2

- Computer Science I

Level 3

- AP Computer Science A-Math
- AP computer Science B-LOTE

Level 4

- Independent Study in Technology Applications

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Join TSA
- Job shadow a computer system analyst or information security analyst

Work-Based Learning Activities

- Obtain a cybersecurity IBC

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



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%

Successful completion of the Cybersecurity 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

Cybersecurity Course Information

Level 2

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Computer Science I	03580200 (1 credit)	None	Algebra I

Level 3

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
AP Computer Science A-Math	A3580110 (1 credit)	None	None
AP Computer Science B-LOTE	A3580120 (1 credit)	None	None

Level 4

COURSE NAME	SERVICE ID	PREREQUISITES	COREQUISITES
Independent Study in Technology Applications	03580900 (1 credit)	None	None

FOR ADDITIONAL INFORMATION ON THE SCIENCE, TECHNOLOGY, ENGINEERING, AND
MATHEMATICS CAREER CLUSTER,
PLEASE CONTACT: CTE@tea.texas.gov
<https://tea.texas.gov/cte>

The Argyle Independent School District does not discriminate on the basis of race, color, national origin, sex, disability, or age in any of its career and technical education programs, services, or activities and provides equal access to the Boy Scouts and other designated youth groups as required by Title VI of the Civil Rights Act of 1964 as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

For inquiries regarding non-discrimination policies under Title VI, Title IX, and Section 504, contact Dr. Deana Steeber, Assistant Superintendent, via email at deana.steeber@argyleisd.com or by phone at 940-464-7241. Dr. Steeber can also be reached at Argyle ISD's central offices, 6701 Canyon Falls Drive in Flower Mound, TX.

Title VI, Title IX, & Section 504 Coordinator
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Further nondiscrimination information can be found at [Notification of Nondiscrimination in Career and Technical Education Programs](#).