LEANDER ISD
CAREER AND TECHNICAL EDUCATION

STEM

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH

CYBERSECURITY

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.

Texas Data: Collected by TEA October 2019

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%

RECOMMENDED COURSE SEQUENCE

LEVEL 1 Computer Science Principles AP

LEVEL 2 Computer Science I Advanced/IB

LEVEL 3 Digital Forensics

LEVEL 4 Cybersecurity Capstone

NOTE: See reverse for additional course sequence options and endorsement requirements. Course descriptions and details can be found in the course catalog.

WORK-BASED LEARNING EXPERIENCES	EXTRA-CURRICULAR STUDENT EXPERIENCES
Industry Site Visits/Field Trips; Industry Guest Speakers; Simulations	UIL; National Technology Honor Society (NTHS); Computer Science Club; Robotics

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

A student may earn a STEM endorsement by completing foundation and general endorsement requirements including Algebra II, Chemistry and Physics. Endorsement course options for the Cybersecurity Program of Study are listed below.

7 CREDITS REQUIRED

Required Courses (check prerequisites):

- Algebra II
- Chemistry
- Physics

Choose 4 additional credits from the following:

- Fundamental of Computer Science
- Computer Science Principles AP
- Computer Science I Advanced
- Computer Science A AP
- Computer Science IB HL
- Computer Science IB SL
- Computer Science III
- Digital Forensics
- Mobile Application Development
- Practicum in STEM
- Independent Study in Technology Applications

NOTE: Students who do not complete Algebra II, Chemistry and Physics, but earn four credits in the Programming and Software Development Program of Study, are eligible to earn a Business and Industry Endorsement.

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