

**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.

	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% Growth
Texas Data: Collected by TEA October 2019	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









**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	UIL; National Technology Honor Society (NTHS); Computer		
Speakers; Simulations	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.

#### Non-Discrimination Statement

It is the policy of Leander ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its Career and Technology Education Programs, services, or activities. Leander ISD will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs. Es norma de Leander ISD de no discriminar por motivos de raza, color, origen nacional, sexo o impedimento, en sus programas, servicios o actividades vocacionales. Leander ISD tomará las medidas necesarias para asegurar que la falta de habilidad en el uso de la lengua inglés no sea un obstáculo para la admisión o participación en todos los programas educativos y vocacionales.

# **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.



NOTEC.

### 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.

NOTE2:			