

CFISD Computer Science I K/Advanced

Scope and Sequence

Endorsement: STEM or Business and Industry

Cluster: Information Technology

Meets advanced course requirement? NO ▾
Program of Study: Prog. & Software Dev, Networking,
Cybersecurity, Web Development

Meets foundation requirement for math, science, fine arts, English, LOTE? YES ▾
Course Description:

Computer Science I K is an introduction to the automated processing of information, including computer programming. This course gives students the conceptual background necessary to understand and construct programs, including the ability to specify computations, understand evaluation models, and utilize major constructs such as functions and procedures, data storage, conditionals, and looping. At the end of this course, students should be able to read and write small programs in the language of Java in response to a given problem or scenario, preparing them to continue on to Computer Science II K.

TEKS link

- 1 credit
- Grades 9-12
- Lab supplies or fee may be required
- Required prerequisites: *Algebra I*

Industry Certification/Credential: *None*
TEA recognized IBC (to count toward program of study completion)? NO ▾

Instructional Units	Grading Period
Introduction to Computer Science Principles Variables Math Operations Boolean Logic Conditionals and Loops	N1 (fall)
Strings Python - Lists Python - Functions/Methods	N2 (fall)
Java - Syntax and Basics Java - Loops and Conditionals Java - Strings	N3 (spring)
Java - Strings Java - Arrays Java - Classes	N4 (spring)

Primary Instructional Materials: CODEHS