CFISD Computer Science I K

Scope and Sequence

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 to Computer Science II K. (1 credit)

- Grades 9-12
- Required Prerequisite: Algebra 1
- Lab supplies or fee may be required TEKS

Cluster: STEM / Information Technology

Endorsement: STEM / Business & Industry

- Meets advanced course requirement (Y/N): N
- Meets foundation requirement for math, science, fine arts, English

LOTE (Y/N-area): Yes – LOTE

College Career and Military Readiness: Prerequisite for Computer Science II (AP Computer Science A Exam for college credit)

Instructional Units	Pacing
Digital Citizenship / Computer Usage Python Programming: -Variables, Booleans, and Math -Loops & Conditionals -Strings -Lists -Functions/Methods	Semester 1
Java Programming: -Syntax & Basics -Loops & Conditionals -Strings -Arrays -Classes/Methods	Semester 2

Primary Languages (used districtwide): Python and Java

Supplemental Programming Environments (campuses may use 0 or more): Scratch, Jeroo, Greenfoot