

CFISD Computer Science II K

Scope and Sequence

Course Description:

Computer Science II K is a programming course designed to cover the Advance Placement (AP) Computer Science AP Exam topics. The curriculum will build upon the topics addressed in Computer Programming K. Object-oriented components in the language of Java will be stressed. Other topics include decision making, looping, arrays, inheritance, interfaces, abstract classes, Java collections, sorting, searching, and the AP Case Study.

- Grades 10 – 12 (9th graders may enroll if concurrent with Algebra II)
- Required prerequisite: Algebra II or concurrent; Computer Science I K **or** Geometry K and prior programming experience.
- Lab supplies or fee may be required.

TEKS

Cluster: STEM / Information Technology

Endorsement: STEM

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

Industry Certification/Credentials: potential college credit based on AP exam score

Instructional Units	Pacing
Variables Ifs and Loops Strings Methods and parameters Classes Arrays	1 st grading period
Arrays ArrayList Matrices	2 nd grading period
Inheritance Interfaces/Abstract Classes Recursion Sorting and Searching	3 rd grading period
AP exam prep End of year project	4 th grading period

Primary Instructional Materials: Java

Supplementary Instructional Materials: Barron’s AP Computer Science A Exam Prep