

## CFISD Computer Science II K (AP A Test Prep)

Course Description:

Scope and Sequence

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 Science I K. Object-oriented components in the language of Java will be stressed. Other topics include decision making, looping, inheritance, Java collections, sorting, searching, arrays, array list, and 2D arrays. (1 credit)

- 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

Program of Study: Programming & Software Development

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
Ifs, Loops, and Strings Arrays ArrayList 2 D Arrays	1 <sup>st</sup> grading period
Classes Inheritance	2 <sup>nd</sup> grading period
Recursion Sorting and Searching AP Review – OLD FRQs	3 <sup>rd</sup> grading period
AP Review – OLD FRQs AP exam prep End of year project	4 <sup>th</sup> grading period

Primary Instructional Materials: Java

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