

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

### Scope and Sequence

**Endorsement:** STEM

**Cluster:** Information Technology

**Meets advanced course requirement?** NO

**Program of Study:** Prog. and Software Development

**Meets foundation requirement for math, science, fine arts, English, LOTE?** YES

**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 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.

**TEKS link**

- 1 credit
- Grades 10-12 (*9th if concurrent with Algebra II*)
- Lab supplies or fee may be required
- **Required prerequisites:** Algebra II or concurrent, AND Computer Science I K (or Geometry I K and prior programming experience)

**Industry Certification/Credential:** AP College Board Examt

**TEA recognized IBC (to count toward program of study completion)?** YES CCMR

| Instructional Units                                                     | Grading Period |
|-------------------------------------------------------------------------|----------------|
| Booleans<br>Ifs, Loops, and Strings<br>Arrays<br>ArrayLists             | N1 (fall)      |
| Classes<br>Inheritances                                                 | N2 (fall)      |
| 2D Arrays<br>Recursion<br>Sorting and Searching<br>AP Review – OLD FRQs | N3 (spring)    |
| AP Review – OLD FRQs<br>AP exam prep<br>End of year project             | N4 (spring)    |

**Primary Instructional Materials:** CompuScholar

**Supplementary Instructional Materials:** Java Resources, Barron's AP Computer Science A Exam Prep