

## CFISD Computer Science II AP A

### Scope and Sequence

**Course Description:**

Computer Science II AP A 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. (1 credit)

TEKS

Cluster: STEM / Information Technology

Endorsement: STEM

- Grades 10-12
- Meets advanced course requirement (Y/N): N
- Meets foundation requirement for math, science, fine arts, English, LOTE (Y/N-area): Yes-math

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 <sup>st</sup> grading period
Arrays ArrayList Matrices	2 <sup>nd</sup> grading period
Inheritance Interfaces/Abstract Classes Recursion Sorting and Searching	3 <sup>rd</sup> grading period
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