

## CFISD Computer Science Principles AP

### Scope and Sequence

#### Course Description:

The Computer Science Principles AP course will introduce you to the essential ideas of computer science and show how computing and technology can influence the world around you. Students will creatively address real-world issues and concerns while using the same processes and tools as artists, writers, computer scientists, and engineers to bring ideas to life.

- Grades 9 – 12
- Required prerequisite: Algebra I
- May not be taken post Computer Science II K
- 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): Y

Industry Certification/Credentials: n/a

Instructional Units	Pacing
Computational Thinking Programming Data Representation Explore Performance Test	1 <sup>st</sup> Semester
Digital Media Processing Big Data Innovative Technology Create Performance Task	2 <sup>nd</sup> Semester

Primary Instructional Materials: [UTeach Gitbooks](#), Scratch/Snap, Processing, Python, Camtasia, ScreenCastOmatic, Microsoft Office, Google Docs, NetBens, Canva,