

CFISD Computer Science Principles AP Scope and Sequence

Course Description:

The AP Computer Science Principles 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. (1 credit)

- Grades 9 – 12
- Required prerequisite: Algebra I
- May not be taken post Computer Science III
- Lab supplies or fees may be required

[AP Computer Science Course and Exam Description](#)

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 - LOTE

Industry Certification/Credentials: n/a

Instructional Units	Pacing
Creative Development Computational Solution Design Algorithm and Program Development Abstraction in Program Development Code Analysis	1 st Semester
Creative Development Impact of Computing - Computing Innovations & Responsible Computing Digital Data Computer Systems & Networks Create Performance Task	2 nd Semester

Primary Instructional Materials: [Python3](#), [Replit](#), [Wing IDE for Python](#), [Scratch](#), [Code.org](#), [Google Drive](#), [Processing](#), [Canva](#)