

CFISD Computer Science III K

Scope and Sequence

Endorsement: STEM

Cluster: Information Technology

Meets advanced course requirement? YES

Program of Study: Prog. and Software Development

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

Course Description:

Computer Science III K is a continuation of Computer Science II AP A and builds upon such topics as object-oriented programming, inheritance, recursion, and classes. Students go on to address advanced topics such as maps, stacks, queues, advanced recursion, linked lists, binary trees, and advanced sorting, and searching topics in preparation for and alignment with college-level computer science.

TEKS

- 1 credit
 - Grades 11-12
 - Lab supplies or fee may be required
- Required prerequisites: Computer Science II K

Industry Certification/Credential: IT Specialist: Java, Oracle Java SSE 8 Programmer

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

Instructional Units	Grading Period
Matrices Recursion Sets Maps	N1 (fall)
Stacks Queues Linked Lists	N2 (fall)
Trees Heaps	N3 (spring)
Hash Tables Graphs Major Project	N4 (spring)

Primary Instructional Materials: N/A

Supplementary Instructional Materials: Java Resources