

Syllabus

AP Computer Science A – Semester 2

Overview

AP Computer Science A is full-year, high school course equivalent to a first-semester, college-level course in computer science for CS majors. This is the second semester of the high school AP course. The course introduces students to computer science using the industry-standard Java programming language and presents fundamental topics that include problem solving, algorithms, and abstraction. AP CS A introduces students to the importance of resilience and project planning through the implementation of several large-scale and complex projects. The daily student-centered lesson plans emphasize practice through working on problems, group activities, labs, and projects that help integrate the learning objectives.

Required Book: *Building Java Programs*, 4th Edition by Reges and Stepp

This required textbook can be loaned through CDLS or purchased if the student would like to keep the copy. Cost: \$150. This is the same text used for semester 1.

Prerequisites:

- Successful completion of AP Computer Science A, Semester 1