AP Computer Science A

AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.

Learn more from College Board: AP CS

Prerequisites

- Geometry

Expectations and Assessments

Who should take it

- Students who would like to major in any STEM field, especially engineering or computer science.
- Students who want to understand how computers work.

Instructional Approaches

- Collaborative work
- Flip Classroom
- Coding Assignments
- Practices MCQs/FRQs
- 1 full practice exam

AP Classroom resources: AP CS

AP Computer Science A

Work time Expectations and Course Structure

- Students are expected to watch videos at home explaining key concepts.
- In class, students will be working on their coding projects and activities to deepen their understanding of major concepts

SKILLS

- Writing code that solves specific problems.
- **Debugging code using tracing and debugging tools**
- **Tracing code to answer multiple choice questions.**

What are the AP Assessments for this class?

Summative Assessments 70%	Formative Assessments 30%	AP Exam
Test and Major Coding Assignments	Quizzes and Class work,.	**Section I: 90 minutes 50%** ❏ 40 Qs MCQ **Section II (1h30min 50%:** ❏ 4 FRQs ❏ Class Design ❏ 1D Arrays or ArrayLists ❏ 2 D Arrays ❏ Loops and Methods