



AP Expectations Night

AP Computer Science Principles (aka "APCS-P")

CONTACT INFORMATION:

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OPTIONAL AP COMPUTER SCIENCE PRINCIPLES REVIEW BOOK:

TITLE: Barron's AP Computer Science Principles Premium with 6 Practice tests, by Seth Reichelson
COST: \$15.49 new as of 05-23-2022
AMAZON LINK: <https://amzn.to/3IBCJVy>

NOTE: This book is optional, but recommended for all students, especially for those that want extra help before the exam.

WHY SHOULD YOU TAKE COMPUTER SCIENCE?

- Computer Science combines math, science, logic, language arts, and artistic design skills all into one package
- "Everybody in this country should learn how to program a computer because it teaches you how to think." -- Steve Jobs
- "What most schools don't teach" video <https://bit.ly/36lwwuK>
- Code.org discussion of Computer Science <http://code.org/promote>

BASIC COURSE CONTENT (<https://bit.ly/3cq7s38>):

- Computational Thinking practices and skills, Coding skills, Fundamentals of computer science
- Mobile CSP Curriculum with MIT App Inventor (<https://runestone.academy/ns/books/published/mobilecsp/index.html>)
- 6 Big Ideas (Creative Development, Data, Algorithms and Programming, Computer Systems and Networks, Impact of Computing)
- AP Create Performance Task is 30% of your AP Exam score, uploaded via AP Digital Portfolio
- AP Written Exam is 70% of your AP Exam score, and is all multiple choice questions

YOU WILL BE SUCCESSFUL IN APCS-P IF YOU:

- Are willing to think and solve problems for yourself
- Are here every single day without fail, and don't miss often due to "conflicts"
- Are willing to occasionally struggle with code until you work it out and get it right
- Have a sufficient math and science background. The more, the better!
- Are self-motivated, comfortable with computers, and able to work at a high level of thought
- Lean towards a career in technology, computers, math, science, engineering, etc.
- Know how to study for, and take "problem solving" quizzes and AP Exams

SUMMER HOMEWORK:

There is no **specific/required/graded summer homework packet for AP Computer Science Principles**. However, if you have not coded before, or if your math / science / logic skills are not as strong as they should be, consider getting a head start with one or more of these tutorials. I have listed these in order of preference:

1. **Code.org App Lab: Learn how to use App Lab** <https://code.org/educate/applab>
(app lab is a web-based environment for creating apps)
2. **Create apps of your own design with MIT App Inventor** <http://ai2.appinventor.mit.edu/>
(We will be using MIT App Inventor in class)

SHOULD FRESHMEN OR SOPHOMORE STUDENTS TAKE THIS CLASS?

This class is open to all grade levels of YLHS students who are prepared for college level work.

- Has the student taken sufficient math and/or science classes?
- Has the student coded in the past at any level, including middle school, calculators, web pages (JavaScript), etc?
- Is the student passionate about technology, coding, and computers?
- Is the student planning a career in Computer Science, Networking, App Development, Engineering, Science, etc?
- Is this a strong student who adapts well to course content?
- Does the student fully appreciate that this is a college level course? Are they ready for college level work?

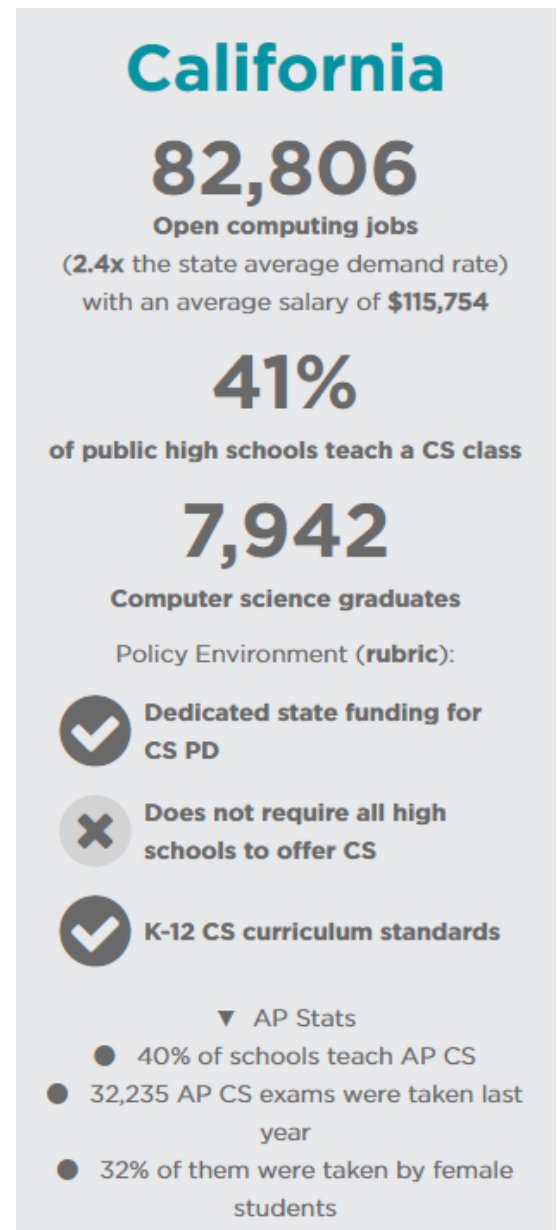
AP COMPUTER SCIENCE PRINCIPLES EXAM INFO (estimated, not all info posted yet):

<https://apstudents.collegeboard.org/exam-policies-guidelines/exam-fees>

- The 2023 exam cost is +/- \$95 if purchased by mid November
- Exams ordered between mid November and mid March usually have a late fee of \$40
- The unused or canceled exam fee is usually \$40
- The **AP Computer Science Principles** written exam is at 8:00am on Thursday, May 11th, 2023

YOUR QUESTIONS AND COMMENTS?

Please email: deliot@pylusd.org



<https://code.org/promote/>