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

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OPTIONAL AP COMPUTER SCIENCE PRINCIPLES REVIEW BOOK:
TITLE: Barron's AP Computer Science Principles Premium, 2024…, by Seth Reichelson
COST: $29.99 new as of 05-22-2023
AMAZON LINK: bit.ly/41Ze287
NOTE: **While this book is optional, it is recommended for students <u>taking the exam</u>, and for students that want <u>extra help</u>.**

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/36IwvuK**
- Code.org discussion of Computer Science   **http://code.org/promote**

BASIC COURSE CONTENT (https://bit.ly/3cg7s38):
- 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)
- The AP Create Performance Task is **30% of your AP Exam score**, uploaded via the AP Digital Portfolio website
- The AP Written Exam is **70% of your AP Exam score**, and is +/- 70 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 exams

SUMMER HOMEWORK:
There is no **specific, required, or 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, not used in class)

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 a lot)

SHOULD FRESHMEN OR SOPHOMORE STUDENTS TAKE THIS CLASS?

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

- Has the student taken sufficient math and/or science classes?
- Has the student coded in the past at any level, including middle school, coding camps, summer classes, 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?
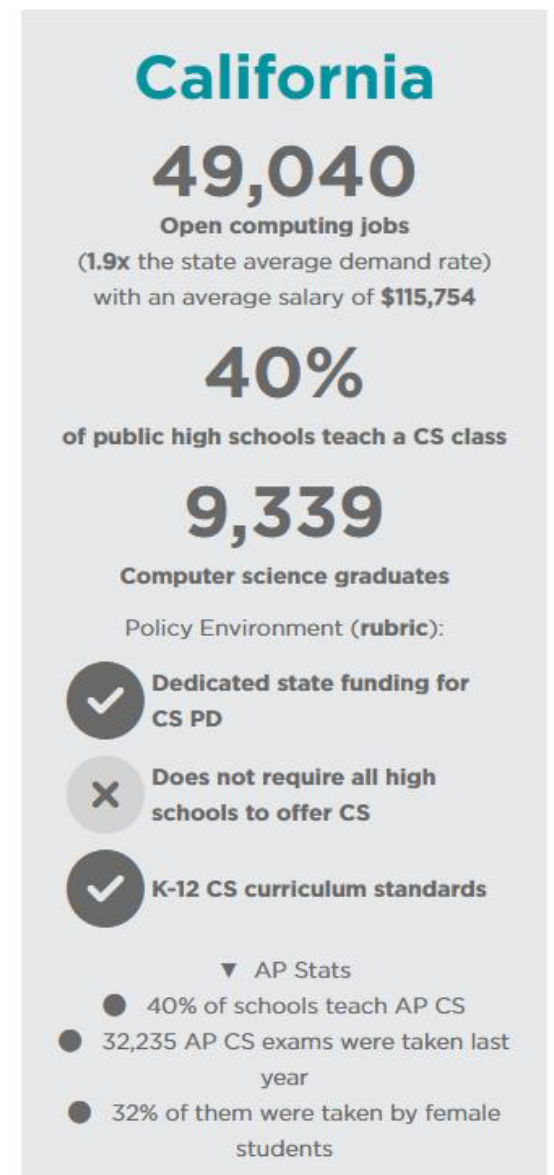
AP COMPUTER SCIENCE PRINCIPLES EXAM INFO (estimated, 2024 dates have not been posted!):

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

- The 2024 exam cost is +/- $97 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** "Create Task" MIGHT BE due on Monday, April 29th, 2024
- The **AP Computer Science Principles** written exam MIGHT BE at 12:00pm on Monday, May 13th, 2024

YOUR QUESTIONS AND COMMENTS?

Please email: deliot@pylusd.org

California

49,040
Open computing jobs
(**1.9x** the state average demand rate)
with an average salary of **$115,754**

40%
of public high schools teach a CS class

9,339
Computer science graduates

Policy Environment (**rubric**):

✓ Dedicated state funding for CS PD

✗ Does not require all high schools to offer CS

✓ K-12 CS curriculum standards

▼ AP Stats
● 40% of schools teach AP CS
● 32,235 AP CS exams were taken last year
● 32% of them were taken by female students

`https://code.org/promote/`