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AP Computer Science Principles  
2023 Summer Assignment  
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# Welcome to AP Computer Science Principles!

This class will teach you the basics of coding in Python.

The purpose of the AP Computer Science Principles (AP CSP) summer assignment is to ensure that every student is aware of the level of commitment required to do well in this challenging, college-level course and the AP exam. You will also get a preview of some of the content that we will tackle throughout the year.

In this course, collaboration is encouraged; however, cheating and plagiarism will not be tolerated. In order to learn the content, you must design, debug, and write your own programs.

To be successful in this course, you will need:

1. Access to a computer 3 hours per week outside class. (pc/ mac is preferable, as some of the software in the past did not work as well on chromebook) Let me know if this is not possible.
2. Familiarity with how to use your school-provided Google Drive
3. A desire to take and be successful on the AP exam 2024

## Summer Assignment

1. Sign into my AP Computer Science (2023 - 2024) class in Google Classroom. The join code is qwgrxca.
2. Review the official AP Computer Science Principles homepage from the CollegeBoard.  
<https://apcentral.collegeboard.org/courses/ap-computer-science-principles/course>
3. Using any computer/ Chromebook with internet access, sign up for a free account on codecombat.com. The directions for how to join my codecombat class are found on Google Classroom. You cannot use a tablet or phone. When you finish the assignments, mark them as complete on Google Classroom.
  - a. Do "Introduction to Computer Science," all exercises (**including concept and combo challenges**), ***by June 30***
  - b. Do "Computer Science 2," all exercises (**including concept and combo challenges**) ***by July 31***
    - i. **NOTE:** In order to do Computer Science 2, it needs to be assigned to you (it requires a license that I need to apply to your account). If you cannot access CS 2 when the time comes, please email me.

- c. Since it may be your first time doing code, EMAIL ME WITH QUESTIONS if you're stuck! Also, I recommend spacing out the exercises (module 2 has 40+ exercises, for example) as it will not be doable all in one day.
    - d. (OPTIONAL) Do "Computer Science 3"
  4. Watch these videos:
    - a. software engineer:  
<https://www.youtube.com/watch?v=vt79JcPfZQA>
    - b. Software developers  
[https://www.youtube.com/watch?v=\\_9ZS6q4996g](https://www.youtube.com/watch?v=_9ZS6q4996g)
  5. **Complete the questions on Blown To Bits by August 17, the first day of school.**
    - a. Read chapters 1, 2, 4, 6 of *Blown To Bits: Your Life, Liberty, and Happiness After the Digital Explosion* by Harry Lewis, Ken Ledeen, and Hal Abelson. The book can be read online [here](#) (bitsbook.com), or bought from any bookstore.
    - b. Answer the discussion questions on the Google doc template provided on Google Classroom.
    - c. Each response can be answered in a few complete sentences, except for the free responses, which should be 1-2 paragraphs.
    - d. An originality report will be run on this assignment. If you plagiarize any of the responses, you will receive a 0 for the entire assignment.
    - e. The questions, as well as the directions for filling out the document, can all be found on the Google document template on Google Classroom.
  6. Optional:

If you finish with the codecombat lessons and would like more Computer Science practice, you can go to the following websites:

    - a. Sign up for an account with your Google account. Practice Python at <https://www.codecademy.com/learn/python>
    - b. Create an account and join my khan academy class, <https://www.khanacademy.org/join/EEEEAH5ZA>
  7. Email me with questions.