

AP Computer Science Principles – Belmont High School

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Welcome to AP Computer Science Principles! In this course we will explore the breadth of the field of computer science and dive into the ways we can use computer science to solve the problems we encounter.

Your summer work consists of 3 assignments, detailed below. To begin, go to Google Classroom and join our APCS Principles summer classroom. The code is **zaphrx6**

- Once you've joined, you will find the assignments posted in the 'Stream' and under 'Classwork'. You can turn in the assignments through Classroom.

All of these assignments must be completed by the first day of school and will count as grades for Quarter 1.

Assignment #1: Course Description (5 pts)

Read the [Course Description](#) for AP Computer Science Principles (available on Google Classroom). Focus on the "About AP Computer Science Principles" section on page 7, the "Course Framework" section starting on page 11, the "Exam Overview" section starting on page 163, and the "Create Performance Task" section starting on page 189. Answer the questions on the Google Form on Google Classroom

Assignment #2: Blown To Bits (5 pts)

Read Chapter 1 from the book *Blown to Bits* by Abelson, Ledeen, and Lewis

- The book is available as a free download. Here is the link to the PDF of just Chapter 1:
<http://www.bitsbook.com/wp-content/uploads/2008/12/chapter1.pdf>

Answer the questions on the Google Form on Google Classroom. I expect all written assignments to be in complete sentences, use correct grammar, and use correct punctuation. I also expect well-designed, clear, concise answers with supporting details.

Assignment #3: Scratch Assignment (15 pts)

Enroll in the edX course:CS50's Introduction to Programming With Scratch at <https://www.edx.org/course/cs50s-introduction-to-programming-with-scratch>

Choose 'Audit this course' and 'Complete this course.' DO NOT TAKE THIS AS A VERIFIED COURSE: YOU ARE NOT EXPECTED TO PAY MONEY, IT IS A FREE COURSE!!!!!!!

Over the summer work through the course. Once you have completed the course, go into Assignment #3 on Google Classroom and submit:

- Your program from Project 9 (submit the Scratch project URL).
- Your certificate from Harvard
 - If you submit and receive a score of at least 70% on each of this course's projects, including its final project, you will be eligible for a free **CS50 Certificate** at <https://cs50.harvard.edu/certificates>

DO NOT WAIT UNTIL THE DAY BEFORE SCHOOL STARTS TO BEGIN THIS ASSIGNMENT!!!!!! While you may be able to complete some of the exercises quickly, others take more time.