

AP Computer Science Principles

Chapel Hill High School · 2024-2025

- **Instructor:** Garrison Reid
- **Contact Information:** greid@chccs.k12.nc.us · 919.537.9182 (Google Voice)
- **Course Website:** <http://chhsreid.com>
- **Location:** A183

Course Description

This course introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking, and inviting students to understand how computing changes the world. Students will develop innovative computational artifacts using the same creative processes artists, writers, computer scientists, and engineers use to bring ideas to life. This course does not have a designated programming language, but the CHHS courses will focus on the Python programming language.

AP Exam: Students will be taking the AP Computer Science Principles exam on **Thursday, May 15, 2025 at 12 p.m..**

Final Exam (20% of F1): Students will attempt the Certiport certification exam Information Technology Specialist Python. Students will earn a 100 for a passing score (700), and all other scores will be entered as a proportion of the score 850.

AP CSP Core Topics known as “Big Ideas”

1. Creative Development
2. Data
3. Algorithms and Programming
4. Computer Systems and Networks
5. Impact of Computing

Grading Policy

Developing (50%)	Summative (50%)
<ul style="list-style-type: none">• 35% - Projects• 10% - Labs (Coding scenarios)• 5% - Quizzes	<ul style="list-style-type: none">• 50% - Tests

Software Used: Google Colaboratory, JuiceMind, Google Classroom

Online Textbooks

- *Automate the Boring Stuff with Python*, <https://automatetheboringstuff.com/>, Al Sweigart
- *Blown to bits: your life, liberty, and happiness after the digital explosion*, Abelson et al. - Addison-Wesley - 2011, <https://www.niemanlab.org/pdfs/blowntobits.pdf>
- *AP® Computer Science Principles Crash Course*, Corricelli - Research & Education Association - 2018 **Available for free through the Orange County Library system's Hoopla subscription**

Instructor Availability

I will be available for scheduled Office Hours during the following times:

- Monday/Tuesday/Wednesday/Thursday: 12:35pm-1:15pm
- At request by email.

Extra Credit Opportunities / Lunch club meetings

- Coding Club - Tuesdays (Advanced) / Thursdays (Beginner)
- Computer Science Club (American Computer Science League) - Tuesdays

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