



## Carnegie Mellon University Computer Science Academy

Carnegie Mellon University's School of Computer Science understands that closing the opportunity gap will require introducing all students to computer science well before they reach college. Often, though, students have limited — or no — access to a CS curriculum in high school. The lucky ones may take a few interactive classes in elementary and middle school, then it's crickets until they take an AP CS course in high school. And even then, those courses may lack the continuity and standard that will really help students prepare for college.

CMU's Computer Science Academy wants to change all that.

Founded by Mark Stehlik and David Kosbie — two of the School of Computer Science's award-winning teaching professors — **CS Academy has created an entirely free, online, interactive high school computer science curriculum.** CS Academy doesn't just provide the curriculum framework, though. It offers teacher training, an online interactive textbook, online technical support and more. All free.

### CS ACADEMY'S 3-DAY TRAINING OFFERS:

- an overview of computer science and programming
- working knowledge of the CS1 course for 9<sup>th</sup> graders
- best practices for teaching computer science
- CMU student-supported online help
- insight into the suite of CS Academy courses
- a community of computer science teachers

### WHO SHOULD ATTEND:

- CS Academy is intended for high schools interested in providing their students with a highly engaging and relevant computer science course. **This training is most beneficial for teachers who have never taught Python or computer science.** However, even experienced CS teachers will benefit from the CS pedagogical sessions interwoven with the course content sessions.

### CS ACADEMY FOR 9<sup>TH</sup> – 12<sup>TH</sup> GRADES

- Beyond 2020 — CS Academy will build out a complete offering of high school computer science courses. This includes an applications course and a high school course for advanced students that is equivalent of CMU's own college-level introductory programming course.



### WHAT CS ACADEMY MEANS FOR YOUR STUDENTS:

CS Academy's CS 1 is a high school computer science course designed to introduce students to basic programming. This is done with text-based coding in the language Python using a graphics package specifically designed to be a great entry point for students, CMU Graphics. CS 1's goal is to introduce students to programming in a captivating manner while simultaneously building problem-solving skills and an understanding of the thinking methods used by programmers.

**TO NOMINATE TEACHERS, EMAIL [juan.fernandez.abc@gmail.com](mailto:juan.fernandez.abc@gmail.com)**

### CS Academy @ WPS (Newton, MA)

**Dates:** June 29 – July 1, 2020

**Location:** WPS, 234 Herrick Road, Newton, MA 02459

**Fees:** There is NO cost for participating teachers or schools

**Meals:** WPS will provide light breakfast, lunch and snacks

**Travel:** Onsite-parking, MBTA Green line (10 min walk)

**Required Materials:** Laptop and free CS Academy account

**More Information:** Go to <https://academy.cs.cmu.edu>