



Carnegie Mellon University Computer Science Academy

In Carnegie Mellon University's School of Computer Science, we understand that the future of the field depends on introducing 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 who do 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.

Our 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 — the CS Academy aims to create an entirely free, online, interactive high school computer science curriculum. CS Academy doesn't just provide the curriculum framework, though. It comes with teacher training, an online interactive textbook, online technical support and more.



Carnegie Mellon University School of Computer Science

5000 FORBES AVENUE
PITTSBURGH, PA 15213-3890



SCSatCMU

cs.cmu.edu

CS ACADEMY FEATURES

- Interactive notes with dynamic autograded checkpoints
- Browser-based environment
- Learning text-based Python programming
- Engaging graphics and animations
- Autograded exercises
- Blocked copy + paste functionality on student accounts
- Image inspector tool
- CMU student-authored content
- CMU student-supported online help for teachers
- Each semester culminates in a fun day of learning and activities at CMU.

PLANS FOR THE FUTURE

- **2019-2020 Academic Year** — Offer CS1 to any classroom interested in using it. Pilot CS Academy module to use within the Advanced Placement Computer Science Principles course.
- **Beyond 2020** — Build out a complete high school computer science offering. This includes an applications course and a pipeline toward offering a high school course for particularly advanced students that's the equivalent of CMU's introductory programming course.

HOW TO GET INVOLVED

We're constantly looking for new classrooms to work with. If you're a high school teacher, we'd love to talk to you about CS Academy, the curriculum and support we offer, and how they might fit into your education plan. If you're interested in using CS Academy in your classroom, visit academy.cs.cmu.edu to get started, and contact Program Manager Erin Cawley with any questions at ecawley@andrew.cmu.edu.