

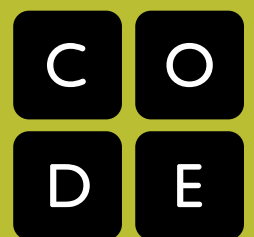
Welcome to the 21st Century

New computer science courses could be coming to your district!

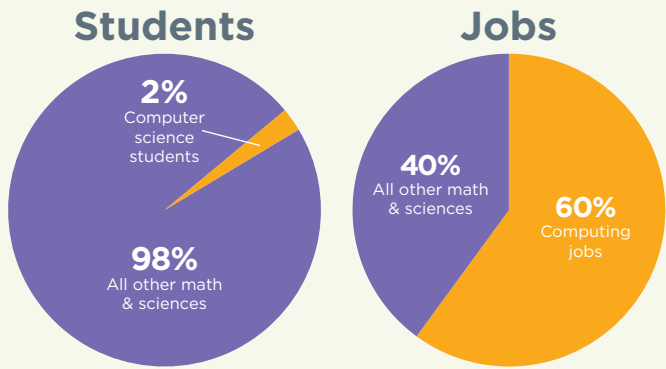


“Everybody in this country should learn how to program a computer... **because it teaches you how to think.**”

— Steve Jobs



Why Computer Science? Computer science opens more doors for students than any other discipline in today’s world. Learning even the basics will help our students lead in virtually any career—from architecture to zoology. Just as we teach students how to dissect a frog, or how electricity works, it’s important for every 21st century student to have a chance to “dissect an app,” or learn how the Internet works.



College Board AP Data. AP CS = 2%, AP Math/Science = 98%

Don’t miss out on the chance to unlock a new future for your students. In these classes, students will learn to build technology, not just consume it. They’ll imagine games, apps and programs and create them.

Partner with Code.org

Code.org provides a full pathway for school districts to offer computer science, **at no charge** to the district or schools:

- Professional development for teachers (including up to 50% of teacher stipends)
- Nationally-recognized courses and K-12 curriculum in a blended-learning environment
- Materials to promote computer science to parents and students
- Support for all grade levels, K-12

Our K-12 Computer Science Program

Our program consists of curriculum packages with corresponding teacher professional development. Together, these curricula and professional development represent a comprehensive approach to bringing K-12 computer science into schools.

Elementary School

The Elementary Computer Science Program consists of the following course modules:

- **Course 1: for early-readers, ages 4-6**
- **Course 2: for beginners, ages 6+**
- **Course 3: for ages 6+**
- **Course 4: for grades 4th-8th**

Course modules are taught within pre-existing classes and are 15 to 20 lessons each. They are designed to be implemented in a standard 45-50 minute class period and use a blended-learning approach in which online, self-guided, self-paced tutorials are used in conjunction with hands-on, “unplugged” lessons, in which students learn computing concepts without a computer.

Middle School

The Middle School Computer Science Program consists of interdisciplinary modules that combine computer science concepts with science and mathematics. The following courses are aligned with common state standards in science and mathematics, including the NGSS and CCSS:

- **Computer Science in Science**
- **Computer Science in Algebra powered by Bootstrap**

Lesson sets are designed to be woven into existing math and science courses, and will not add substantial instructional time. Each lesson is designed to be implemented in a standard 45-50 minute class period. Lessons are topical and should be used within the natural context of class.



High School

The High School Computer Science program includes two courses representing years of research and development sponsored by the National Science Foundation. These courses are designed to broaden participation in secondary computer science and prepare students for postsecondary experiences related to computing or college majors in computer science.

- **Exploring Computer Science**
Exploring Computer Science (ECS) is a nationally recognized introductory computer science course. It includes curriculum and professional development. ECS is designed to promote an inquiry-based approach to foundational computer science concepts, and to highlight computational practices and problem-solving skills.
- **Computer Science Principles**
Currently in a pilot phase leading to an AP® exam* in academic year 2016-2017, this course is far more than a traditional introduction to programming. It is a rigorous, engaging and approachable course designed to teach students how computer science is transforming the world we live in and how they can use computer science in their own lives and studies.

Both courses are designed as year-long programs for standard 45-50 minute class periods. Schools may use alternative scheduling formats as long as the course is completed in its entirety.

K-12 Professional Development Workshops

Code.org provides a high-quality K-12 professional development pathway including teacher supports, learning platform, and course marketing materials. In exchange, we want your district to commit to the goal of access to computer science education for all students, and to continuing and sustaining the work we begin together.



High School and Middle School Professional Development

Code.org will help your district cover the costs of teacher stipends for high school or middle school professional development (out of contract hours) by matching funding you put towards this cost. For high school teachers, a complete professional development package per teacher consists of four phases before and during the school year. For middle school teachers, it is three phases before and during the school year.

* AP® is a registered trademark of the College Board.

Elementary School Professional Development

Code.org will cover the costs to prepare a Facilitator (chosen by your district) to deliver one-day, in-person workshops to district elementary school teachers to teach computer science. We also provide the supplies to host the workshop, including take home materials for attending teachers such as a printed curriculum guide, classroom materials for the unplugged activities and fun Code.org swag. Even without a district partnership your teachers can attend a workshop hosted by a local affiliate. For a list of workshops happening now, see <http://code.org/k5>.



How to participate

Sign your district up at <http://code.org/district-partner>

To participate, we ask school districts to:

- **Offer one or more computer science curriculum/courses** (either high school, middle school or elementary)
- **Develop a comprehensive plan to establish a strong working partnership and sustainability of the program** (should outline the district's vision for computer science, how it will implement specific programs, promote the program to teachers and students, support the partnership within the district and local community and fund teacher stipends)
- **Participate in Code.org's professional development program** (guarantee that each teacher participating will teach the appropriate course in the upcoming school year, allow PD to satisfy district hourly requirements for annual professional development)
- **Set up classrooms for success** (meet minimum technology requirements, provide the necessary materials to support each section of the course, including establishing course codes for both Computer Science Principles and Exploring Computer Science)
- **Assess the program** (allow Code.org and its evaluators to assess the program, including aspects of teacher professional development and student outcomes)

We look forward to working together to bring computer science to every school in the country!

Code.org is a 501(c)3 non-profit dedicated to expanding participation in computer science education by making it available in more schools, and increasing participation by women and underrepresented students of color. The Code.org vision is that every student in every school should have the opportunity to learn computer programming.

