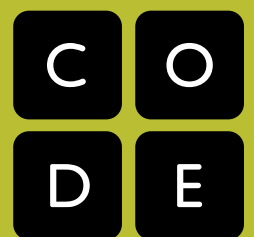


# Welcome to the 21st Century

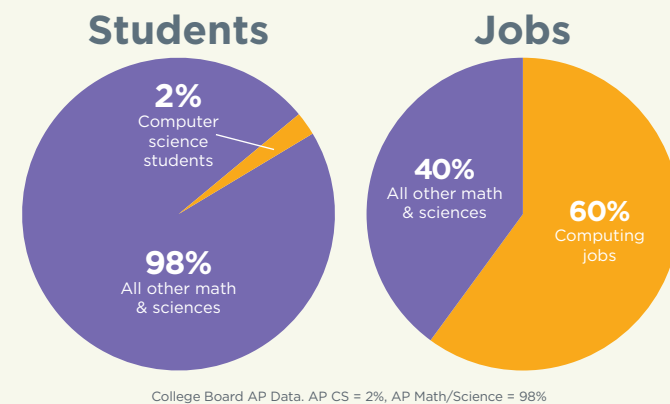
New computer science courses could be coming to your district!



“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.



**Don't miss out on the chance to open up 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.

## Partnership 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 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

## The K-12 Computer Science Program

Our program consists of three curriculum packages, each 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 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 Mathematics**

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 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, professional development and assessments. 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.

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



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



## K-12 Professional Development Workshops

Code.org provides professional development for teachers at schools participating in the program, combining online and in-person workshops, and covers costs of stipends for teachers, travel, meals and workshops.

For high school teachers, the 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. Our elementary school professional development is executed through local affiliates.



## How to participate

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

To participate, we ask school districts to:

- **Offer computer science curriculum/courses** (high school computer science required, middle/elementary recommended but optional)
- **Establish a strong working partnership** (marketing, establishing computer science program director, district-wide Hour of Code™ events, implement key program details, guarantee time-slot on the master schedule for each teacher/course)
- **Participate in Code.org's professional development program** (including at least one teacher from participating schools, counselor and principal from participating schools, provide limited teacher travel support, limited use of district facilities)
- **Set up classrooms for success** (meet minimum technology requirements, provide the necessary materials to support ECS course)
- **Sustain the program after the term of the agreement** (Offer core credit (math/science) for Computer Science Principles, develop a community of practice)
- **Assess the program** (allow Code.org and its evaluators to assess aspects of teacher professional development and student outcomes)
- **Sign a three-year agreement** (renewable annually)

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

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**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.

