CodeVA

We teach kids to code.

CodeVA Teacher Training – Middle School Programs

Will my students really need computer science?

Computer Science is the study of how we use computing devices. The world our students are graduating into is drastically different than the one we entered after high school. The job landscape is changing constantly. To be prepared students need to know how to code. At a minimum, they need to know how computer science affects their world.

Over 70% of jobs in STEM are actually in computing. And the demand is growing. Virginia currently has over 35,000 unfilled jobs in computer science and the governor's office estimates that number will grow to 70,000 by the end of his term.

Don't I need to know how to code to teach computer science?

No. The most important thing is a willingness to learn. Also, computer science is much more than coding. It teaches students a way of thinking that encourages collaboration, problem solving and inquiry. These courses cover the Internet, data, and ethics along with coding.

Our training is designed specifically for teachers that have never coded before. A complete day-by-day curriculum is provided. In addition both the in person PD sessions and the online site are designed to build a community to support you as we work to master the material.

Can I integrate this curriculum into a class I'm already teaching?

Absolutely. Across the state different school districts are implementing the course in a variety of settings. As long as all the material in the curriculum is covered. The local course title is up to the local district to determine.

Many of the districts we work with do the Exploring Computer Science course in IT Fundamentals (CTE 6670), Programming (CTE 6640) or Computer Math.

Project Guts is intended to be integrated into any middle school science course and Project Bootstrap works in any Algebra I course.

What does CodeVA provide?

Our one-year professional development consists of:

- Over 90 hours of training, including:
  - Summer Session – 3 day training to prepare you for the first 2 units of the material
  - During the school year - 2 one-day sessions to prepare you for additional units
  - Regular online webinars
  - Active online community and learning modules
- Ongoing support from master computer science teachers
- Copy of the curriculum
- Generous stipend paid over the program.

General Information on Training:

- All Teacher training sessions are held in Richmond, VA. Our funding does not cover travel or lodging, and most teachers from outside the Richmond metro area have this covered by their home district.
- To qualify for the training you must teach the course in the 2016-17 school year and the 2017-18 school year
- Our underwriting to offer this training covers public school teachers. Independent schools may participate. For pricing information contact: training@codevirginia.org

Middle school teachers and their administrators may choose to participate in these training opportunities:

Exploring Computer Science

Developed at UCLA in partnership with the Los Angeles Unified School District, this curriculum provides a complete day-by-day plan, and a unique professional development to help you implement it in your classroom.

Note: Middle School students must be receiving a high school credit in order for the teacher to qualify for the session.

Preview the curriculum here: http://www.exploringcs.org/curriculum

Training Sessions – Two options: Session 1: Jun 27 - Jul 1, 2016 Session 2: Jul 18 - 22, 2016

Please note: teachers are assigned to Groups based on district. While we will try to accommodate preferences due to logistics limitations we cannot always accommodate every request

Project Guts – Middle School Science

Preview the curriculum here: http://www.projectguts.org/

Code.org Information: https://code.org/curriculum/mss

Project Guts' middle school science program connects computer science to science through computer modeling and simulation. The modules address performance expectations in both the NGSS and Computer Science Teachers Association K-12 Computer Science Standards.

Training Sessions Jul 18 - 20, 2016

Project Bootstrap – Middle School Math

Preview the curriculum here: http://www.bootstrapworld.org/

Code.org Information: https://code.org/curriculum/msm

Project Guts' middle school science program connects computer science to science through computer modeling and simulation. The modules address performance expectations in both the NGSS and Computer Science Teachers Association K-12 Computer Science Standards.

Training Sessions Jul 18 - 20, 2016