

# UC DAVIS

## C-STEM CENTER



*"As a teacher of mathematics for the past 28 years, I have to say that this is the best program I have worked with to inspire and focus on most struggling learners in Algebra."*

**Susan Johnston**  
Math Teacher  
Livermore High School

The C-STEM program transforms K-14 computing, science, technology, engineering, and mathematics education in both formal and informal programs, with a focus on Algebra. The C-STEM Math-ICT curriculum provides K-12 students with up to 13 years of computer science education through integrated learning of math and science with hands-on coding, making, and robotics. Previous research studies show that computer science alone does not help students' math achievement. However, through over a decade of dedicated research and development, C-STEM now has a track record in transforming math education with higher achievement through computing.

### C-STEM Success Stories by teachers with no prior coding experience:

<http://c-stem.ucdavis.edu/about-us/success>

For at-risk and gifted students alike, **C-STEM program significantly increases math performance and closes achievement gap:**

American Canyon Middle School  
American Canyon, CA

**94%** of C-STEM Integrated Math I students scored "Standards Exceeded" and **6%** scored "Standards Met" on the Common Core Smarter Balance Assessment. **37%** of students scored **the highest score possible.**

Livermore High School  
Livermore, CA

In a C-STEM Algebra 1 class consisting of **84%** "at-risk" students with a GPA below 2.0, extreme attendance issues, very low socio-economic backgrounds, or identify as foster or migrant education students, students scored an **83% average on the district final exam** on Algebra (versus **68%** district wide average using the same exam). The **course pass rate is 100%** with an average course grade **84%**.

Hillcrest High School  
Riverside, CA

**94%** of students in C-STEM Integrated Math II were able to earn passing marks, compared to the site average of **61%** passing rate in non C-STEM Integrated Math II courses.

Northwest Local School District  
Cincinnati, OH

**77%** of the students in the Applied Math class using C-STEM curriculum **passed the 8th grade Math AIR assessment** versus **16%** of the students in Applied Math who passed in the previous year (not using C-STEM curriculum).

**In only one week or less,** teachers, through C-STEM Professional Development with hands-on experience, can bring computing and robotics into their classroom teaching.

*"Oh my gosh! I barely can contain myself ....soooo fun!!! So challenging and so rewarding at the same time!!!"*

**Jessica Fernandez**  
Math Teacher  
Glenn Edwards Middle School

For more information, contact  
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California Department of  
**EDUCATION**

