

AFTER SCHOOL AND SUMMER PROGRAMS

Robotics Camps for Accelerated Math Learning

Our program empowers K-12 students for accelerated and deeper math learning through robotics projects and the solution of real-world problems using math concepts, and at the same time provides students with recreational and teamwork opportunities. Hands-on, real-world problems integrate coding, engineering, science, art and music.

GIRL/GIRL+ Camps



Girls in Robotics Leadership (GIRL) and GIRL+ camps inspire the next generation of female creators, makers and leaders. These camps are hosted by schools, districts, COE, colleges, and non-profits

Ujima GIRL Project



This \$2.4M NSF funded project conducted in 24 school districts will nurture over 1,500 Black/African American middle and high school girls as STEM leaders in their schools, communities and careers.

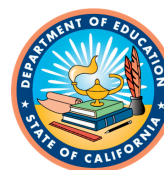


UC DAVIS C-STEM Center

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TRANSFORMING MATH AND CS EDUCATION WITH CODING AND ROBOTICS

C-STEM Program

K-12 Math-ICT Curriculum

Professional Development

- C-STEM is a UC Approved Educational Preparation Program for undergraduate admission for both K-12 and Community College students to all UC campuses.

The C-STEM Program engages students through integrated learning of math and science with hands-on coding and robotics. The C-STEM Program empowers educators to confidently integrate technology into their classrooms while maintaining a focus on the objectives and standards that they currently teach. Through the C-STEM program and curriculum, teachers use technology to extend learning as well as provide alternative experiences for students who do not flourish in a regular textbook classroom. Technology is used as a tool to help students expand their critical thinking skills and their ability to apply STEM concepts to real-world situations.

For at-promise and gifted students alike, the C-STEM program can significantly increase math performance

"The math scores for students of our 35 C-STEM teachers were 10% higher in 2021-2022. The C-STEM program is now the BEST FIRST Math Instruction for many of our students. We are very excited about our experiences and the successes we are having with C-STEM. C-STEM is a game-changer. I really mean it!"

Mauricio Arellano, Superintendent, Redlands USD

The C-STEM Math-ICT Curriculum and ICT Pathway provides K-12 students with 13 years of integrated math and computer science education with hands-on coding and robotics and are fully compliant with both Common Core Math and CS Standards.

C-STEM has UCOP A-G Program Status with 20 pre A-G approved math, CS, and CTE courses ready for schools to adopt.

Engaging Students

Engaging and fun ✓

Life skills ✓

CCSS aligned, complete k-12 Mathematics with Robotics curriculum ✓

CS standards aligned, complete K-12 CS/STEAM with Robotics curriculum ✓

Career and college ready- problem solving, critical thinking, innovation, ✓



C-STEM has over a decade of experience in providing professional development for K-12 teachers, including those without any prior coding experience, in computer science (CS) and integrating CS into math education.

We offer tailored on-site training to fit each school/district's professional development needs, with an emphasis on a special topics or grade levels.

We offer an opportunity for teachers to earn a **Computer Science Supplementary Teaching Credential Authorization** from a partnership between UC Davis and UC Riverside.

"Simply the best staff development training I have ever been to. In my experience, practicing classroom teachers always give the best advice, and the UC Davis C-STEM program offers this."

Doug Obrigawitch, Math Teacher and Department Chair, Manteca USD

