


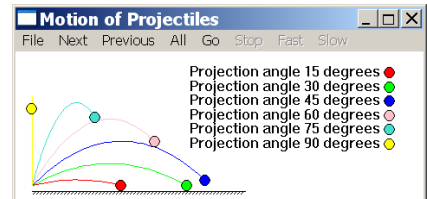
The UC Davis K-14 Outreach Center for Computing and STEM Education (C-STEM) presents
the 2011 UC Davis Summer Institute on Computing and STEM Education
http://c-stem.ucdavis.edu/training/summer_institute/
 with two short courses for K-12 STEM teachers

<p>Teaching Math Labs for Algebra Using Interactive Computing and Programming 1062 Bainer Hall, UC Davis campus 8:30am-5pm, June 20 - June 24, 2011</p>	
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- Labs have been designed for K6 to K12 math teachers for *Algebraic Reasoning*, *Algebra Readiness*, *Pre-Algebra*, or *Algebra I* with simple, concise, and self-contained math lab sessions
- Participants in the short course will learn how to integrate labs into their classrooms so students understand abstract concepts of algebra and their practical applications, and the fundamentals of computing and computer programming for problem solving
- The C-STEM Center works with teachers to implement in the curriculum during the academic year

	<p>Teaching Introductory Computer Programming and Computer Science 1062 Bainer Hall, UC Davis campus 8:30am-5pm, June 27 - July 1, 2011</p>
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- Designed for K-12 teachers for *Technology*, *Computer Programming*, *Robotics* on how to teach computer programming and computer science for applications in science, technology, engineering, and mathematics
- Learn structured programming in C for computer-aided problem solving
- The C-STEM Center works with teachers to implement in academic year



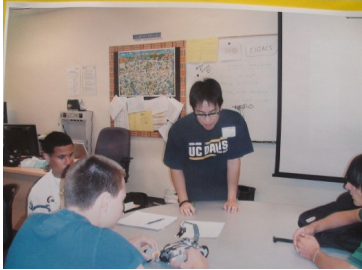
Registration

- \$499 for one course / \$799 for both courses registered before **June 10, 2011**; \$599 / \$899 after June 10, 2011.
- Registration covers instruction, supplementary textbooks, teaching materials, software licenses for teaching, morning beverages, lunch, and UC Davis C-STEM Center support for implementation of the program during the academic year
- No refund after instruction begins
- *Optional \$145 for 4 Continuing Education Unit quarter credits from UC Davis Extension, available for each course. Credit request forms available first day of class*
- Make check payable to “The Regents of the University of California”. Send check and this application form to Kevin Gucwa, Director Assistant, UC Davis C-STEM Center, UC Davis, One Shields Avenue, Davis, CA 95616; phone (530) 752-1028; Email: kgucwa@ucdavis.edu

Name _____ Address _____ _____ City _____ Zip _____ Home Phone _____ School _____ School Address _____ _____ School Email _____ School Phone _____	District _____ County _____ Grade Level(s) taught _____ Courses to be taken: Algebra ___ \$499 (\$599 for late) _____ CS ___ \$499 (\$599 for late) _____ Both ___ \$799 (\$899 for late) _____ Total cost: _____
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UC Davis K-14 Outreach Center for Computing and STEM Education (C-STEM)

<http://c-stem.ucdavis.edu>



The mission of the UC Davis K-14 Outreach Center for Computing and STEM Education is to improve computing, science, technology, engineering, and mathematics (C-STEM) education in both *formal* and *informal* programs in K-14. We add 'C' in front of STEM and integrate 'C' into STEM. The goal of the C-STEM Center is to broaden participation of students, especially female and under represented minorities, in computing and to develop students' computer-aided problem-solving skills to tackle real-world STEM problems. The C-STEM Center also studies how to streamline the curriculum on computing education in the context of STEM subjects in elementary schools, middle schools, high schools, and first two years in colleges to increase student interest in pursuing computing and STEM related careers, and post-secondary study.

What We Do

Researching and Developing Teaching Resources for Computing and STEM Education

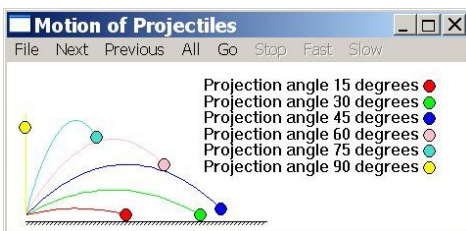
- Conduct Research on K-12 Computing and STEM Education
- Develop pedagogy and strategies to integrate computing into STEM education
- Develop courseware and teaching materials for K-12 computing and STEM education

Training and Professional Development for K-12 STEM Teachers

- Offer workshops, tutorials, and summer institute for professional development for STEM teachers on computing and programming in C/C++, pedagogy on teaching computing in K-12, and its integration in STEM curriculum.
- Provide teachers with teaching materials including course syllabus, homework assignments, and solutions.



Teaching in K-12 Schools



- A supporting group of UC Davis faculty, graduate and undergraduate students, and K-12 teachers for implementation. UC Davis students learn technology and leadership through K-12 outreach activities.
- UC Davis graduate and undergraduate students travel to K-12 schools to give lectures and serve as role models to inspire K-12 students to learn computing and STEM subjects.
- Show K-12 students what can be accomplished with an education in computing and STEM related fields.

UC Davis C-STEM Day for Advocating C-STEM Education

- UC Davis Secondary School Programming Competition
- UC Davis Robot Challenge Competition
- Symposium on C-STEM Education in the 21st Century
- C-STEM Workshops for K-12 students
- C-STEM Awards for K-12 teachers and students
- C-STEM Scholarship for college bound seniors
- NCWIT Award for Aspirations in Computing



Contact: For more information, please contact the C-STEM Director
Dr. Harry H. Cheng at hhcheng@ucdavis.edu or (530) 752-5020