

The UC Davis K-14 Outreach Center for Computing and STEM Education (C-STEM) presents
the 2012 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

Pre-Algebra and Algebra I Support
Using 21st Century Skills To Strengthen Logical Thinking
1062 Bainer Hall, UC Davis campus
8:30am-5pm, July 2 -3 & 5 - 6, 2012



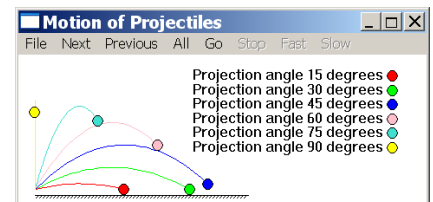
- Labs have been designed for K6 to K12 math teachers for Algebraic Reasoning, Algebra Readiness, Pre-Algebra, or Algebra I with simple, concise, and self-contained math lab sessions
- Participants in the short course will learn how to integrate labs into their classrooms so students understand abstract concepts of algebra and their practical applications, and the fundamentals of computing and computer programming for problem solving
- The modular robot Mobot will be integrated into the lesson plans to provide students with a physical connection to the real world problems.
- The C-STEM Center works with teachers to implement in the curriculum during the academic year



Introduction to Computing and Robotics

1062 Bainer Hall, UC Davis campus
8:30am-5pm, July 9 - July 13, 2012

- Designed for K-12 teachers for Technology, Engineering, Applied Physics, 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
- Integrated lessons utilizing the modular robot Mobot will be introduced to give students a physical interpretation of the material
- The C-STEM Center works with teachers to implement in academic year



Registration

- \$499 for one course / \$799 for both courses registered before **March 30, 2012**;
\$599 / \$899 before **June 15, 2012**. If you do not have a Mobot, add \$290 for a Mobot.
- Registration is available on our website: http://c-stem.ucdavis.edu/training/summer_institute/
- All registrations and checks must be received by June 15, 2012 to participate in the Summer Institute
- 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.
- Contact: c-stem@iel2.engr.ucdavis.edu