

The UC Davis Center for Integrated Computing and STEM Education (C-STEM) presents
the 2013 UC Davis Summer Institute on Integrated Computing and STEM Education
http://c-stem.ucdavis.edu/training/summer_institute/
with two short courses for K-12 STEM teachers



Robotic Technologies and Computer Programming

1062 Bainer Hall, UC Davis campus
8:30am-5pm, June 24 – June 28, 2013

- Designed for K-12 teachers for Algebra, Technology, Engineering, Applied Physics, Computer Programming, Robotics on how to teach robotics and computer programming for applications in science, technology, engineering, and mathematics
- Learn modular robotic technologies for integrated learning in STEM subjects
- Learn structured programming in C for solving applied problem
- 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



Pre-Algebra and Algebra Support with Computing and Robotics --- Using 21st Century Skills To Strengthen Logical Thinking

1062 Bainer Hall, UC Davis campus
8:30am-5pm, July 1 -3 & 5, 2013



- Hands-on curriculum has 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 with computing and robotics.
- 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, computer programming, and robotics 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

Registration

- \$499 for one course / \$799 for both courses registered before **May 24, 2013**;
\$599 / \$899 before **June 17, 2013**. If you do not have a Mobot-I, add \$165 for one and \$330 for two Mobot-Is.
- Registration is available on our website: http://c-stem.ucdavis.edu/training/summer_institute/
- All registrations and checks must be received by June 7, 2013 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