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Explore Math is an outreach program for high school and undergraduate students that was created and is directed by graduate students in the Department of Mathematics at the University of California, Davis (UCD). The program reaches out to high school students in the Yolo and Sacramento County areas who are curious about mathematics. Participating students work with undergraduate and graduate students to learn about cutting-edge research and beautiful mathematics. The program encourages participation of all students, including underrepresented students who have limited mathematical exposure.

Explore Math was founded by graduate students as a complement to its sister program, COSMOS (California Summer School for Mathematics and Science), so that students in the surrounding areas would have access to year-long academic activities in mathematics. The presentation will describe the Math Modeling Experience (offered in the Fall), Math Circle (offered in the Winter), and ARML training program (offered in the Spring). These three programs use math department graduate students to train UCD undergraduate students to work with the high school participants. (Received September 26, 2006)