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Mathematical Outreach: Programs reaching 50 to 50,000 students.

We will present three unique mathematical outreach programs at UC Irvine. For each program, we will share the target audience, program goals, implementation logistics and program evaluation.

1) Irvine Area Mathematical Modelers program (IAMM) - After school training program for local high school students to train to compete in the HiMCM High School Mathematical Modeling competition.

2) Pre-Calculus Coursera Massive Open Online Course (MOOC) - Open course to enable pre-calculus learning opportunities for populations of students around the world.

3) Society, Science, Survival: Lessons from AMC's "The Walking Dead" MOOC - Open course to utilize pop culture TV show to generate interest for general audiences to learn about outreach mathematics and science topics. (Received July 14, 2015)