



COSMOS-UCI

BEST PRACTICES

- 1.** *Challenging curriculum and instruction by experts in science/engineering/math disciplines — UC scientists and faculty and colleagues in public and private universities, and postdoctoral fellows — provided in university classrooms and laboratories;*
- 2.** *Residential program model, fostering a sense of community and shared goals among participants;*
- 3.** *Small class size and collaborative learning emphasizing peer support, and students working on projects in pairs or small groups;*
- 4.** *Intergenerational approach, engaging tenured faculty, graduate and undergraduate students (including future math/science teachers) as well as high school practitioners serving as teacher fellows in the clusters;*
- 5.** *Professional development for undergraduate and graduate students in math and science through service as residential advisors and teaching assistants;*
- 6.** *University and college-going environment integrated into the academic and residential components;*
- 7.** *Diversity of participants, representing all areas of California, from urban to rural counties, public and private schools, and all socio-economic backgrounds;*
- 8.** *Systemwide school-university network, management council, and external advisory board, facilitating information exchange among the UC campus sites and supported by UC Office of the President;*
- 9.** *Student tracking through the Alumni Program, and on-going contact via value added activities, such as the Intel Independent Research Scholars, and opportunities for COSMOS students to present their research at post-program events;*
- 10.** *Evaluation and assessment including focus groups for faculty and students ensure fresh ideas for continual improvement and measures of success toward goals.*

COSMOS: Connect to a Larger World

