



Broader Impacts: Major Programs in All UCI Disciplines

UCI's Center for Educational Partnerships has information about campuswide outreach programs:

www.cfep.uci.edu

Examples of programs applicable to most disciplines include:

- **COSMOS:** California State Summer School for Mathematics & Science: www.cosmos.uci.edu
- **CAMP:** California Alliance for Minority Participation in Science, Engineering and Mathematics: www.camp.uci.edu
- **UCI Rocket Science Tutors:** <http://www.rocketsciencetutors.com>
- **TechTrek Science and Math Camp for Girls:** UCI partnership with AAUW: <http://techtrek-irvine.aauw.net/>
- **Graduate Division DECADE Program:** <https://grad.uci.edu/about-us/diversity/decade/index.php>
- **Graduate Division Mentorship Opportunities:**
- **Competitive Edge Program:** <https://grad.uci.edu/about-us/diversity/decade/competitive-edge.php> **Graduate Division Summer Research Programs:** <https://grad.uci.edu/about-us/diversity/grad-prep-programs/surf.php>

ARTS

For information about outreach in the Arts, contact Megan MacDonald: email

megan.macdonald@uci.edu. For information about outreach in the Beall Center, contact Catlin Moore: cmoore@uci.edu

- **School of the Arts and Beall Center for Arts + Technology:** Combining arts and science: <http://beallcenter.uci.edu/outreach/partnerships>
- **Creative Connections:** Curriculum-based arts for K-12 students: <http://outreach.arts.uci.edu/creative-connections>
- **Saturday Academies in the Arts:** Day-long events for middle and high school students and parents to participate in workshops, panel discussions, and tours, and to attend an arts event: <http://outreach.arts.uci.edu/saturday-academies>
- **Robotics Summer Camps at the Beall:** Lego® engineering projects based on STEAM (Science, Technology, Engineering, Art and Math) curriculum, for kids ages 6-13: <http://beallcenter.uci.edu/steam-summer-camps>

BIOLOGICAL SCIENCES (See <https://www.bio.uci.edu/outreach/>)

- The School of Biological Sciences has an exceptionally successful Minority Sciences Program, which is a national model for science education for Under-Represented Minority students. This program reaches K-12 students and teachers, as well as community college and



university students, through a range of activities encouraging academic achievement in science, technology, engineering and math. Outreach activities organized by UCI's MSP include the following:

- **Bridges to Baccalaureate Program (NIH)** helps community college students who are interested in a biomedical career transition to a four-year university.
- **Minority Biomedical Research Support Program (NIH)** mentors minority undergraduate and graduate students to encourage and support them as they pursue doctoral degrees and biomedical careers.
- **Minority Access to Research Careers Program (NIH)** seeks to increase the number of underrepresented minority researchers in biomedical research careers by supporting junior and senior URM students in their preparation for graduate training in the biomedical/behavioral sciences.
- **Undergraduate Research and Mentoring Program in the Biological Sciences (NSF)** has an objective of preparing URM undergraduates to excel in PhD programs in biological research.
- **Minority Health and Health Disparities International Research Training Program (NIH)** supports URM students interested in studying or conducting research abroad.
- **GK-12, Innovating Graduate and K-12 Education in Biological Sciences Program (NSF)** brings innovation to graduate and K-12 education by integrating investigation and experimentation conducted by faculty and graduate students with teaching of Biology/Life Sciences in grades 7-12.
- **Science Fair Initiative** has helped thousands of K-12 students from three Southern California school districts prepare science fair projects.
- **Teacher Professional Development Program** offers summer and Saturday workshops for science and math teachers at districts with a high proportion of minority students.

BUSINESS The Paul Merage School of Business hosts a website with opportunities for business to work with students and faculty; see: <https://merage.uci.edu/why-merage/lasting-connections.html>

EDUCATION The School of Education pursues extensive outreach activities in many categories, including for K-12 students on and off the UCI campus; professional development activities with practicing teachers on the UCI campus and at K-12 sites; and work with community agencies such as United Way, Orange County Department of Education, and Orange County Commission on Children and Families.

- **Cal Teach:** Recruits talented undergraduate science and math majors to prepare for a teaching career, and is jointly sponsored by the Schools of Biological Sciences, Physical Sciences, and Education: <http://calteach.uci.edu/>
A faculty member who proposes his/her own outreach-type program related to science or math education could build in some funds to recruit Cal Teach undergraduate credential candidates to assist with developing or implementing the outreach program.



- **California Reading and Literature Project:** Provides professional development in writing to teachers: <http://www.cfep.uci.edu/crlp/>
- **California Science Project:** The goal is to deepen teachers' content knowledge and enhance their understanding of the tools and pedagogy in the Next Generation Science Standards. Program leaders include science specialists and UCI faculty, among others: <http://www.cfep.uci.edu/cspi/>

ENGINEERING (For information about outreach in Engineering, contact Leyla Riley, leyla.riley@uci.edu.)

- **MESA:** Helps elementary, middle, and high school students to enhance math and science skills, explore career opportunities in STEM, and ensure that students are competitively eligible for the university: <http://mesa.eng.uci.edu/#>
- **FABCamp:** Hands-on summer experience for 6th-9th grade students: <http://sites.uci.edu/fabcamp/>
- **CardioStart:** <http://cardiovascular.eng.uci.edu/cardiostart>

HUMANITIES (For information about outreach in the Humanities, contact Amanda Swain, ajswain@uci.edu)

- **UCI History Project:** UCI's History Department and OC K-12 history/social science teachers collaborate to provide teacher-training institutes in literacy, world history, and U.S. history: <http://www.humanities.uci.edu/history/ucihp/>
- Contact Amanda Swain for information about additional faculty outreach activities.

INFORMATION AND COMPUTER SCIENCE

- **APPCamp:** Hands-on summer experience for 6th-9th grade students: <http://sites.uci.edu/appcamp/about/>

LAW (See <http://www.law.uci.edu/about/public-service/public-interest/community-programs/>)

- **Saturday Academy of Law:** Helps 9th grade students in Santa Ana to improve their reading, writing, and speaking skills and learn more about law: <http://www.law.uci.edu/about/public-service/public-interest/community-programs/sal/>
- **Pre-Law Outreach Program (POP):** A summer Saturday "pipeline" program encourages disadvantaged undergrads to enter law: <http://www.law.uci.edu/about/public-service/public-interest/community-programs/pop/>

MEDICINE (See <https://www.meded.uci.edu/diversity/outreach.asp>)

- **PRIME-LC:** A five-year combined M.D./Masters training program for physician-leaders who are culturally sensitive and linguistically competent to address the needs of California's Latinos: <https://www.meded.uci.edu/curricular-affairs/prime-lc.asp>
- **Center for Future Health Professionals:** A mentorship program that exposes Orange



County youth to different healthcare professions and encourages lifelong civic engagement.

See <http://www.cfhp.uci.edu/>

- **Health and Science Enrichment Programs:** Enrichment programs for youth interested in a career in healthcare or science. See <https://www.som.uci.edu/summerpremed/>

PHYSICAL SCIENCES (For information about outreach in Physical Sciences, contact Lori Greene: email legreene@uci.edu)

- **LEAPS:** Laboratory Experiments and Activities in the Physical Sciences: <https://ps.uci.edu/node/39122>
- **Physical Sciences Undergraduate Mentoring Program:** <http://ps.uci.edu/content/undergraduate-mentoring-program>
- **UCI Chemistry Outreach Program:** http://www.chem.uci.edu/~jsnowick/outreach/UCI_Outreach/Home.html
- **MathCounts:** Outreach to middle school students: <http://www.physsci.uci.edu/outreach/mathcounts>
- **Irvine Area Math Modeling (IAMM):** <https://ps.uci.edu/content/irvine-area-math-modeling-iamm>
- **UCI Math Circle:** Enrichment program for middle and high school students: <http://www.math.uci.edu/~mathcircle/>
- **CLEAN Mission - Climate, Literacy Empowerment And iNquiry:** <http://www.ess.uci.edu/researchgrp/clean/home>

SOCIAL ECOLOGY (See <https://socialecology.uci.edu/pages/social-ecology-community>)

- **Criminology Outreach Program:** Educates underserved students in the community about the legal system. See <http://socialecology.uci.edu/pages/criminology-outreach-program-cop>
- **Metropolitan Futures Initiative:** Aims to build communities that are economically vibrant, sustainable, and socially just by partnering SE's scholarship with expertise throughout Southern California. See <http://socialecology.uci.edu/mfi>.

SOCIAL SCIENCES (See <https://www.socsci.uci.edu/outreach.php>)

- **Global Connect:** Enriches OC's secondary curriculum in international studies; <http://www.socsci.uci.edu/globalconnect/>
- **HABLA:** Aims to increase disadvantaged two- to four-year-olds' school readiness; <http://www.socsci.uci.edu/habla/>
- **Jumpstart:** This national early education organization recruits and trains college students and community corps members to serve preschool children in low-income neighborhoods <http://www.jstart.org/>

OUTREACH ACTIVITIES OFF-CAMPUS (Get involved with local and regional organizations):

- Aquarium of the Pacific: <http://www.aquariumofpacific.org/>
- Newport Bay Conservancy: <http://newportbay.org/>



- Back Bay Science Center: <http://backbaysciencecenter.org/>
- OC Conservation Corps: <http://www.hireyouth.org/>
- Boys & Girls Club Santa Ana: <http://www.boysandgirlsclub.com/>
- OC Science and Engineering Fair: <http://www.ocsef.org/>
- Discovery Science Center: <http://www.discoverycube.org/>
- OC Science Education Association: <http://ocscience.org/>
- Girls Inc.: <http://www.girlsinc-oc.org/>
- San Diego Zoo: <http://zoo.sandiegozoo.org/>
- LA Natural History Museum: <http://www.nhm.org/site/>
- Santa Ana Zoo: <http://www.santaanazoo.org/>
- Latino Health Access: <http://www.latinohalthaccess.org/>

Be creative! Use 21st-century media opportunities:

- Write a blog, upload a podcast, start a Twitter feed, Tumblr, Pinterest, social media, among others

This document was originally created by Lori Greene, Director of Research Development, Physical Sciences
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