

## COLLEGE EXPOSURE & PREPARATION:

### 1. **Linked Learning Health Academy at John F. Kennedy High School**

Linked Learning Academies are 4-year programs of study integrating academic content with technical and 21<sup>st</sup> century skills within a career theme. Linked Learning includes four major components:

- i. College-prep academic core emphasizing real-world applications
- ii. Technical core of four or more courses meeting industry standards
- iii. Work-based learning
- iv. Student supports (academic, emotional & social, college & guidance)

Document containing a description of linked learning:

[http://www.wccusd.net/cms/lib03/CA01001466/Centricity/Domain/57/linked-learning-advantage-using-linked-learning-implement-common-core-state-standards\\_0.pdf](http://www.wccusd.net/cms/lib03/CA01001466/Centricity/Domain/57/linked-learning-advantage-using-linked-learning-implement-common-core-state-standards_0.pdf)

### 2. **Berkeley United in Literacy Development (BUILD)**

BUILD is one of the largest reading programs in the East Bay. Each participating child is matched with a UC Berkeley mentor who reads with them twice a week for 30-45 minutes. Mentors work with the same student for at least a semester or the academic year. Sometimes, mentors stay with the same student for several years.

Program Website: <http://publicservice.berkeley.edu/build>

### 3. **UC Berkeley Destination College Advising Corps (DCAC)**

DCAC recruits recent college graduates to serve as full-time College Adviser Fellows in partner schools and sites throughout California. Adviser Fellows take part in an intensive College Advising Boot Camp in the summer prior to their placement and benefit from on-going training and support from seasoned college access professionals. Adviser Fellows spend the next 1-2 years exploring the public service, taking part in local and national research and making college access and preparation available to partner schools, students, parents and their local communities.

Program Website: <http://cep.berkeley.edu/destination-college-advising-corps>

### 4. **Berkeley Summer Experience**

The Berkeley Summer Experience (formerly known as the Cal Summer Experience) gives students an opportunity to learn more about Berkeley admissions, financial aid, housing, and other aspects of student life at UCB. During the program, students learn how to present a strong application for admission, get one-on-one support on their personal statements with an experienced admissions officer, and learn of the many resources and activities offered at UCB.

Program Website: <http://admissions.berkeley.edu/BerkeleySummerExperience>

### 5. **Summer Math And Science Honors (SMASH)**

The Berkeley Particle Cosmology group partners with the Level Playing Field Institute to offer the 5-week summer SMASH Academy. SMASH engages a multi-disciplinary pool of science and mathematics graduate students to serve as project leaders for a Topics in Current Science Research course. Each project leader guides a group of 3 to 5 students (just completed 9<sup>th</sup> grade) through a hands-on research project that the leader has designed. The project culminates in a research paper and group presentation.

Program Website: <http://www.lpfi.org/smash/>

## **6. Sage Mentorship**

The Sage Mentorship Project is a one-on-one mentorship organization that sends committed U.C. Berkeley students to elementary schools to work with at-risk youth. Mentors develop meaningful relationships with their mentees academically, by aiding in school work and helping mentees to develop effective study strategies, and socially, by building confidence and serving as a source of motivation and inspiration to pursue higher education.

Program Website: <http://www.sagementors.org>

## **CAREER EXPOSURE & READINESS:**

### **1. The Introductory College Level Experience in Microbiology (iCLEM)**

iCLEM) is an eightweek paid summer internship program for high potential, low income high school sophomores and juniors from local public schools. The program seeks to broaden students' understanding of biotechnology and the careers available in this field. In addition to basic science and research, the program also exposes students to career exploration and preparation for the college application process, including field trips to local biotech companies, career talks with scientists and engineers, writing a college personal statement, meeting college admission and financial aid experts, and visiting college campuses. Students are paid a stipend of \$1500, plus a scholarship of \$500 upon successful completion of the program.

Program website: <http://www.synberc.org/iclem>

### **2. Bay Area Scientists in Schools (BASIS)**

BASIS offers teachers and students an opportunity to interact with real-life scientists and engineers as well as dig in to hands-on science and engineering activities. A diverse range of scientist volunteers are connected with elementary and middle school students and teachers, to inspire students with examples of real-world science careers and issues, to engage students in hands-on, inquiry based learning experiences, and to create effective teaching links between scientists and public elementary schools.

Program website: <http://www.crscience.org/volunteers/aboutbasis>

## **Teacher and Staff Professional Development:**

### **1. Berkeley Engineering Research Experience for Teachers Plus Computing (BERET+C)**

BERET+C pairs UCB Cal Teach students with local teachers in science and math research projects. A graduate student mentor works with each pair to conduct research and apply what they learn to develop curricula that integrates engineering computation and computing into K–12 science and math instruction. During the academic year, participants take part in professional development seminars and workshops to support the incorporation of computation and computer science in their classrooms.

Contact Information: [calteach@berkeley.edu](mailto:calteach@berkeley.edu)

### **2. UC Berkeley Lawrence Hall of Science**

The Lawrence Hall of Science offers a variety of inquiry-based science and mathematics professional development options that exemplify sound teaching strategies and are researched to address the needs of all learners. The program is connected with over

20,000 teachers annually—regionally, nationally, and even internationally through their collaborations with partner sites, publishers, school districts from NYC to LA, and partners as distant as Japan and Jordan. Customized programs can be created to suit the needs of specific schools.

Program website:

[http://www.lawrencehallofscience.org/programs\\_for\\_schools/professional\\_development](http://www.lawrencehallofscience.org/programs_for_schools/professional_development)

### **3. Math for America Berkeley (MfA)**

MfA Berkeley's five-year master teacher fellowship program brings together exceptional San Francisco Bay Area teachers in order to develop and support a cadre of dedicated teacher-leaders who will lead the way toward improved teaching and learning in mathematics and science classrooms. As Master Teachers in the MfA Berkeley Fellowship Program, participants are provided opportunities to strengthen their teaching skills, develop leadership knowledge, and engage in leadership roles.

Program website: <http://mathforamerica.berkeley.edu>

*Prepared by Katherine L. Reid, Director, [MfA Berkeley](#). And distributed by Yuritzky Gomez, CCISCO Organizer on 1/28/2016.*