The College of Chemistry’s Guiding Outstanding Learners to Discover (GOLD) programs are designed to empower students in high school and other undergraduate institutions to further their understanding of the chemical sciences and engineering.

**Curricula & Strategy**

The programs provide structured curricula that incorporate seminars and lectures given by world-renowned faculty and scientific leaders in their fields. In some cases, the programs include hands-on experiences in the laboratory and/or classroom.

These offerings are integrated with other strategies such as group problem-solving activities, presentations, and interactive discussions that build stronger communication, interpersonal, and analytical skills amongst participants. The objective of the GOLD programs is to facilitate the development of each student’s intellectual and inquiry skills to help him/her achieve his/her fullest potential.

**Teaching Excellence**

Every GOLD program is sponsored and taught by UC Berkeley faculty, graduate students, and scholars, and is held onsite at the Berkeley campus.

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**OUR PROGRAM**

Berkeley Chemistry Research, Academics, and Mentoring (B-CRAM) Program is a unique 2-week experience designed for the motivated high school student who is passionate about the chemical sciences and wishes to excel their understanding of what college-level academics and life will be like. Students will experience intense immersion in each of the following areas over the two weeks:

**Research**

You will step-into the actual laboratories that conduct the cutting-edge and award-winning research the College of Chemistry is famous for. You will get a unique insider’s view by shadowing and learning from graduate students and faculty while they complete their daily activities of developing research methods, thinking through scientific problems, and innovating solutions that advance society. You will moreover, get a better understanding of the attributes required to be a successful scientist.

**Academics**

You will be taught the same inorganic chemistry that all science and engineering majors at UC Berkeley are required to take and by the same professors! Topics include Octet Rule and Chemical Bonds, Free Energy, Equilibrium and Acid Base Chemistry. One-half or 8-weeks of the regular semester’s course will be provided over the two weeks, which will provide you unparalleled and excellent preparation for doing well in AP Chemistry or college-level chemistry. You will also experience cutting-edge teaching: each class is based on an interactive, instant feedback model. Lectures are integrated with lab time where you will conduct planned experiments in our undergraduate laboratories.

**Mentoring**

Undergraduate UC Berkeley student advisers are an integral part of the program. They will be living and eating with you in the dormitories, coordinating your social and group activities, providing guidance about the college admission process, sharing what it means to be a Berkeley student, and providing tutoring.
ACTIVITIES & EXCURSIONS

Other activities and excursions will augment your experience of being at UC Berkeley and the San Francisco Bay Area.

- Tour of the UC Berkeley campus
- UC Berkeley Admissions Office info session on the application process.
- Excursions to local Bay Area attractions

Tour of the UC Berkeley campus.
**INNOVATIVE & UNIQUE**

**Brought to you by the #1 ranked chemistry program in the world.**

B-CRAM is administered and delivered by the College of Chemistry at UC Berkeley and is taught by its own globally ranked faculty and graduate students.

**INCREASE KNOWLEDGE AND UNDERSTANDING BEYOND THEORY.**

Students experience hands-on what is taught in the classroom and interact with world-renowned faculty and students in their laboratories.

**INTEGRATED EXPERIENCES ON A HISTORIC CAMPUS.**

Understand what it means to live in the dorms, attend UC Berkeley classes, and interact with other UC Berkeley students at California’s first public university and home of the Free Speech movement.

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**FACULTY**

**JOHN ARNOLD**

Professor Arnold’s research focuses on the synthesis and study of new and unusual molecular inorganic and organometallic compounds of the d-, p-, and f- block elements. The emphasis is on preparing compounds that exhibit novel reactivity and/or catalytic behavior. Professor Arnold is one of the most highly rated educators on campus teaching undergraduate chemistry curricula.

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**MICHIELE DOUSKEY**

Dr. Douskey’s primary interests are faculty development, curriculum reform, research on assessment of student learning and incorporation of green chemistry into the laboratory program. Dr. Douskey plays a key role in the General Chemistry curriculum and actively pursues ways in which technology can enhance the classroom experience.

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**PETER MARSDEN**

Dr. Marsden joined the faculty in 2012 and teaches General Chemistry Laboratory, Chemical Structure and Reactivity, and Organic Chemistry Laboratory.
TUITION AND FEES

COST
The total cost of the 2-week program is $5,500, which includes all on-campus housing and dining, instruction, educational and laboratory materials, scheduled excursions, airport transfer between UC Berkeley and SFO, and program swag. The cost of any necessary flights to get to the Bay Area and all other miscellaneous or personal expenses are the responsibility of the student.

CERTIFICATE OF COMPLETION
Students who complete the program will receive a certificate of completion signed by the Dean of the College of Chemistry.

PROGRAM DATES
July 18-August 1, 2020

HOW TO APPLY
To apply, visit https://www.etouches.com/b-cram
FINANCIAL AID

SCHOLARSHIPS

A limited number of scholarships are available to assist students who demonstrate financial need. Awards vary based on need, and a typical award covers a portion of the tuition. If needed, we encourage you to seek other sources of funding as well. To apply, please access the financial aid application that is available inside the application portal.

CONTACT US

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B-CRAM

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UNIVERSITY OF CALIFORNIA