

DEVELOPING THE INNOVATORS OF TOMORROW

COSMOS California State Summer School for Math and Science 2014 PROGRAM AND APPLICATION PROCESS

COSMOS is an intense, experiential four week summer learning program for talented high school students interested in science and mathematics. Working side-by-side with distinguished university researchers and faculty members, students will take part in laboratory and field work that encompasses current research underway at the University of California.

Academics

Rigorous, collaborative, hands-on

The COSMOS program comprises a variety of academic "clusters", each of which includes two science and/or math courses and a science communications course. Students will experience labs, lectures, field activities and discussions and will work on a related research project.

Accommodations

Summer friendships, lasting bonds

In providing students the opportunity to live in a dormitory setting with their peers, COSMOS offers another valuable facet of college preparation. Students form lasting bonds with others who share their interest in and aptitude for science and math. Weekends bring a variety of fun field trips.

Financial Assistance

Need-based aid

Those who qualify individually for free or reduced lunch by the National School Lunch Program may also qualify to receive financial aid, based on verification of their eligibility and the availability of funding. Students who do not receive free or reduced lunch will be assessed for financial aid based on family size and income.

Apply online:
ucop.edu/cosmos

Application period:
January 21–February 21

Tuition/fees:
\$30 application fee
(non-refundable)

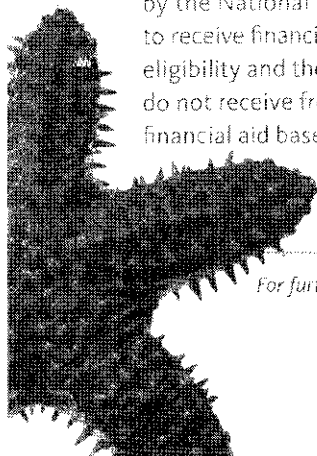
\$3,100 tuition fee*
(includes room and board)

* \$6,000 tuition fee for non-California students; not eligible for aid

For further information regarding COSMOS, please visit: ucop.edu/cosmos



COSMOS
California State Summer School
for Math and Science



COSMOS courses allow students to explore advanced topics in science, technology, engineering and mathematics (STEM) fields.

Virtual Information Sessions:

- January 16 3–4pm
 - January 23 6:30–8pm
 - January 30 6:30–7:30pm
 - February 5 4–5:30pm
- www.ucop.edu/cosmos

Application

Limited space, competitive admission

Admission to COSMOS is competitive. To qualify for COSMOS, students must have excelled academically.

As the demand for high-quality STEM opportunities for California pre-college students has increased in recent years, the number of COSMOS applicants has grown, too. Due in part to campus housing limitations, the program can only accommodate about 700 students each year.

Admission criteria include:

- High academic performance (grades) in STEM courses
- Recommendations from STEM teachers
- Thoughtful responses to short-answer questions

Priority is given to 9-11th grade students. Previous COSMOS attendees are not eligible for admission.

2014	UC Davis July 6–August 2	UC Irvine June 29–July 25	UC Santa Cruz July 6–August 2	UC San Diego July 6–August 2
BIOLOGICAL SCIENCES	Biomedical Sciences	Genes, Genomes, Biocontrol ^A ^B ^D Tissue and Tumor Biology and Modeling ^{BA} ^D Biomedical Sciences--Clinical Translation Science ^A	Marine Mammal Biology and Oceanography ^B Astronomy ^A	
PHYSICAL SCIENCES	Physics in Electro-optics and Nuclear Technology ^A ^P Introduction to Astrophysics ^A The Chemistry of Life ^A ^D	Biodiversity and Ecosystems of Coastal California Astronomy and Astrophysics ^{AG} Big Bang and the Subatomic World ^{AG}	Nanochemistry ^{BC} Chemistry and Environmental Toxicology ^{CO} Chemistry and Mathematics ^{AC} ^O	Living Oceans and Global Climate Change ^{CO} Biodiesel from Renewable Sources ^C
MATHEMATICS	Mathematics ^A Mathematical Modeling of Biological Systems ^A ^T		Number Theory and Logic/Puzzles ^A	
ENGINEERING	Intro to Engineering Mechanics ^{TP} Computers in Biophysics and Robotics Biotechnology ^B	Mobility Engineering for Land, Air and Space ^A ^{GP}	Computer Engineering: Internet Evolutions ^A	Engineering Design and Control of Kinetic Sculptures ^A Earthquake Engineering ^A From Lasers to LCDs: Light at Work ^P Bio/Mechanical Engineering: The Amazing Red Blood Cell ^B Tissue Engineering and Regenerative Medicine ^A ^B
COMPUTER SCIENCE		Mobile Digital Media ^{AG}	Video Game Design ^A	Computers in Everyday Life ^A ^D Music and Technology ^O

Prerequisites: A Algebra A² Algebra II G Geometry T Trigonometry B Biology C Chemistry P Physics O Other

For campus-specific information, please visit:

- UC Davis cosmos.ucdavis.edu
- UC Irvine cosmos.ucl.edu
- UC San Diego cosmos.ucsd.edu
- UC Santa Cruz cosmos.ucsc.edu

