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Math and Science Summer Programs

Program Name / Description	Eligibility Requirements / Info and Costs	Application Deadlines	Program Dates
<p>California State Summer School for Mathematics & Science (COSMOS) Three UC campuses, Davis, Irvine, and Santa Cruz, welcome high school students who excel in mathematics and science to a four-week residential summer program. During the program, students have the opportunity to work with renowned university faculty and researchers studying topics not traditionally taught in high schools. The class size is relatively small, providing an environment conducive to educating the individual. Web site: http://www.ucop.edu/cosmos</p>	<ul style="list-style-type: none"> Any public / private high school student grades 8-12 (priority for 9-11 graders) GPA generally 3.5+ Other achievements are also considered Program accommodates 160 participants Tuition: \$2,810. Full and partial financial assistance is available. Students who qualify for free/reduced lunch automatically qualify to receive full financial assistance; verification required. <p style="text-align: center;">See more info at: http://www.ucop.edu/cosmos/faqs.html</p>	<p>Application Available: February 1, 2012</p> <p>Online Application Closes: March 1, 2012 5:00pm</p> <p style="text-align: center;">Application fee \$30 non refundable</p>	<p>UC Irvine: June 24 – July 21, 2012</p> <p>UC Davis, UC San Diego, and UC Santa Cruz: July 8 – August 4, 2012</p>
<p>SIMR Summer Intern Program The Stanford Institutes of Medicine Research (SIMR) Summer Intern Program offers high school students from diverse backgrounds interested in biology and medicine the opportunity to perform basic research with Stanford faculty, postdoctoral fellows, students and researchers on a medically-oriented project. Students work within one of the five Institutes of Medicine: Immunology, Stem Cell Biology, Neurobiology, Cardiovascular Medicine and Cancer Biology. The program aims to help students understand how professional scientific research is performed, preview life working in a research lab, and introduce them to top fields in medical research. http://simr.stanford.edu/</p>	<ul style="list-style-type: none"> Online application Current juniors and seniors (at time of application) only Students must be 16 years old by start of program, June 11th, 2012 Program accommodates 40 – 45 students Housing not provided Students receive a \$1,500 stipend <p style="text-align: center;">See more info at: http://simr.stanford.edu/faqs.html</p>	<p>Application Available Online: January 3, 2012</p> <p>Application Deadline (online only!): Feb 24, 2012</p> <p>Selection Notification by: April 13, 2012</p>	<p>June 11 – August 3, 2012 (8 weeks)</p> <p>Poster Session: August 2, 2012</p>
<p>Arthritis Foundation Summer Science Internship Program During this 8-week internship students receive hands-on experience in the fields of rheumatology and immunology, with a focus on arthritis and related autoimmune diseases. Interns participate in either basic laboratory (bench) research or clinical translational/epidemiological (patient outcomes oriented) research at Stanford University and UCSF. http://www.summerscienceinternship.kintera.org</p>	<ul style="list-style-type: none"> Online application preferred (may also print and submit) Open to high school juniors and seniors as well as 1st and 2nd year undergraduates All applicants must be 17 years old by June 1, 2012 Program accommodates 12 students Final paper and poster presentation required Must live in one of 16 CA counties (see website) Housing not provided Students receive \$1,500 stipend <p style="text-align: center;">For more information contact Beth Miller, Community Development Manager bmiller@arthritis.org</p>	<p>Application Available: December 1, 2011</p> <p>Application Deadline: February 24, 2012 5:00pm</p>	<p>June 11 – August 3, 2011 (8 weeks)</p> <p>Poster Session: August 2, 2012</p>

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<p>Stanford Medical Youth Science Program (SRP) This 5-week summer residential program's educational opportunity is an introduction to medicine with a large internship component (in a medical facility). The program also emphasizes leadership and interpersonal skills. It is geared towards economically disadvantaged and ethnically underrepresented high school students who are academically oriented, mature and inquisitive about science and medicine. http://smysp.stanford.edu</p>	<ul style="list-style-type: none"> • Complete online application • Current high school sophomores and juniors (preference to juniors) • Northern or Central CA resident (see website) • Program accommodates 24 sophomore and junior high school students • No cost • Housing provided 	<p style="text-align: center;">Application Available: December 14, 2011</p> <p style="text-align: center;">Application Must be Postmarked by: February 15, 2012</p>	June 24 – July 29, 2012
<p>UC Davis Young Scholars Program A six-week residential program that offers High-Achieving and High-Potential Juniors and Sophomores an opportunity to do mentored research in the natural sciences with emphases on the biological, environmental and agricultural sciences in University laboratories. Program information and application can be found at http://ysp.ucdavis.edu/</p>	<ul style="list-style-type: none"> • Online AND hard copy application components • Cost: \$5,200, financial aid available for qualifying students • Program accommodates 40 students • Housing provided • Must be current sophomore or junior 	<p style="text-align: center;">Application Due: March 31, 2012</p> <p style="text-align: center;">Application Fee: \$25 non-refundable</p> <p style="text-align: center;">Selection Notification by: April 17, 2012</p>	June 24 – August 4, 2012
<p>Stanford University Mathematics Camp (SUMaC) SUMaC's goals are to bring mathematically talented and motivated high-school students from across the United States, and from around the world, to Stanford University for four weeks of serious mathematical pursuits. http://math.stanford.edu/sumac/</p>	<ul style="list-style-type: none"> • Open to 10th and 11th graders (ages 15-17) • Cost: \$6000, some financial aid is available for those who qualify <p style="text-align: center;">For more info call: 1-650-721-9325 or email sumac@epgy.stanford.edu</p>	<p style="text-align: center;">Application Available: January 25, 2012</p> <p style="text-align: center;">Application Due: March 14, 2012</p>	July 15 – August 11, 2012
<p>National Youth Leadership Forum on Medicine An intensive 10-day program, held in various cities throughout the country, such as San Francisco, Los Angeles, Atlanta, Boston, Chicago, etc., that includes seminars and hands-on experiences. http://www.nylf.org</p>	<ul style="list-style-type: none"> • 9th – 12th graders (also open to recent high school graduates) • Online application required (date not specified) • Cost: \$2,645, some financial aid is available as well as fundraising help • Must be nominated to enroll and attend (can self nominate) 	<p style="text-align: center;">Scholarship Application Deadline: December 9, 2011</p> <p style="text-align: center;">Application Deadline: Until filled</p>	San Francisco Dates: July 8 -17 2012
<p>Eugene and Ruth Roberts Summer Student Academy This program is designed to engage the scientific curiosity and promote the potential cancer research careers of promising young high-school and undergraduate students from under-represented populations. The program runs ten weeks and gives students full-time lab experience. There is also a 12-week program (CURE) for underrepresented students who are interested in cancer research as a career.</p>	<ul style="list-style-type: none"> • 10 week program • Geared towards minority students • Must be at least 16 • Must be a U.S. citizen • Students receive a \$4000 - \$4800 stipend (depending on program) • Program accommodates ~48 students • Online application • Students begin program as they finish their school year • No housing provided 	<p style="text-align: center;">Application Available: January 2, 2012</p> <p style="text-align: center;">Application Deadline: Mar 3, 2012</p>	2012 Program Dates: End of May – August 2012 (rolling throughout summer; must complete 10 weeks)

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http://www.cityofhope.org/education/summer-student-academy .			
<p>ASM Materials Camp ASM Materials Camp® Student Camps are for high school students with strong abilities in math and science. The program utilizes hands-on learning principles of applied math, physics and chemistry led by a distinguished world-class faculty. The camp is located in many U.S. cities including Los Angeles (1 day mini-camp), as well as abroad in France and India. http://www.asminternational.org/portal/site/www/foundation/materials-camps/</p>	<ul style="list-style-type: none"> • Programs range from 1 day to overnight, depending on site. • Must be current high school sophomore or junior • Must apply online • No cost • Approximately 30 students/site 	Varied, depending on site. ASM website will update as programs are added.	Varied, depending on site
<p>Stanford School of Earth Sciences Internship Students in the Stanford School of Earth Sciences Summer Internship program spend 8 weeks working in one or more labs, working on existing research projects. Students are supervised directly by graduate students, post docs and lab managers. All parties involved (interns and grad students) volunteer their time. http://pangea.stanford.edu/academics/outreach-programs/k12-programs/high-school-internships</p>	<ul style="list-style-type: none"> • Application (including recommendations) is online • Must have completed at least one year of high school (most students are sophomores or juniors) • 15 – 30 hour commitment per week • No fees, no stipend • Non-residential (must live in Bay area) • Must have own transportation • 15 students accepted per summer 	<p>Application Available: January 31, 2012</p> <p>Application Due: March 23, 2012</p> <p>Notification: May 1, 2012</p>	June 18 – August 10, 2012
<p>Stanford EXPLORE: A Lecture Series on Biomedical Research The Stanford Explore Lecture Series covers the fundamentals and current research areas represented in the five Institutes in the School of Medicine (Immunology, Neuroscience, Cardiovascular Medicine, Regenerative and Stem Cell Medicine and Cancer Biology). Most of the lectures are given by Stanford graduate students and postdoctoral fellows with some lectures from select Faculty. Lectures also include topics on careers in science and medicine and Applying to college, graduate and medical school http://oso.stanford.edu/programs/51-stanford-explore-a-lecture-series-on-biomedical-research</p>	<ul style="list-style-type: none"> • Grades 9-12 • At least one year of biology is encouraged • Cost \$1000 • Non-residential program • Mornings only, approximately 2 weeks 	Not Yet Available – check program website for updates	Not Yet Available – check program website for updates

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<p>PROJECT SEED The ACS Project SEED program opens new doors for economically disadvantaged students to experience what it's like to be a chemical scientist. Students entering their junior or senior year in high school are given a rare chance to work alongside scientist-mentors on projects in industrial, academic and federal research laboratories, discovering new career paths as they approach critical turning points in their lives. With guidance from mentors, they gain confidence, a solid sense of direction and the ability to realize their own potential. http://portal.acs.org/portal/acs/corg/content?_nfpb=true&_pageLabel=PP_TRANSITIONMAIN&node_id=1588&use_sec=false&sec_url_var=region1</p>	<ul style="list-style-type: none"> • Junior or Senior high school student • Economically disadvantaged according to Federal Poverty Guidelines • Students receive a \$2500 fellowship award during Summer I and a \$3000 fellowship award during Summer II • Must have completed at least one chemistry course • Students must write a final report and complete a follow-up survey • Program is in Washington DC • Students should reside in DC area 	<p>Online Application Available: November 12, 2011</p> <p>Online Application Due: January 30, 2012</p>	<p>Classes: June 4 – August 31, 2012</p>
<p>RISE (Raising Interest in Science and Engineering) Summer Internship Program An intensive 7-week summer program for local Bay Area students (living within 25-mile radius of campus) interested in science, engineering, math, and computer science. Students work in an active research lab under the guidance of a mentor from the lab (typically a graduate student), and attend weekly group sessions that include field trips, presentations, hands-on science activities, and lab tours. http://oso.stanford.edu/programs/39-rise-summer-internship-program</p>	<ul style="list-style-type: none"> • Targets underrepresented and minority students • Must be 16 by June 11, 2012 • Must attend San Mateo or Santa Clara County schools • Students receive a \$2600 stipend during the summer • 30 hours/week on campus • Cannot have participated in a summer internship program (at Stanford or elsewhere) previously <p>For more info contact: Kaye Storm, kstorm@stanford.edu</p>	<p>Application deadline: February 17, 2012</p>	<p>June 11 – July 27, 2012</p>
<p>USC Summer Programs USC offers a variety of 2 and 4 week long programs in a variety of subjects, from architecture to engineering to forensic psychology. Completion of 4 week long programs leads to some college credit. Programs are residential but students may choose to live off campus. http://summer.usc.edu/4week/</p>	<ul style="list-style-type: none"> • Cost \$2,579 - \$6,995 (some financial aid available) • No pre-requisites • Residential, but can commute • 15 – 60 students per course (depending on course) but ~ 20 students/course on average 	<p>Application Available: December 2011</p> <p>Application Due: May 1, 2012</p> <p>If Applying for Aid: Financial Assistance Form AND Application Due: March 30, 2012</p>	<p>July 8 – July 22 or August 4, 2012 (depending on program)</p>

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<p>UCLA SMARTS Program The UCLA Science Mathematics Achievement and Research Technology for Students (SMARTS) Program is a six-week summer college preparation program designed to engage traditionally underrepresented students in rigorous science, technology, engineering and math instruction and training. SMARTS also offers the Research Apprentice Program (RAP) through which students conduct six weeks of research in UCLA labs. http://www.ceed.ucla.edu/programs/k-12/smarts/smarts</p>	<ul style="list-style-type: none"> • 30 – 40 students • Focus on underrepresented populations • Current sophomores and juniors are eligible • Must have completed Algebra II, Pre-Calculus, Trigonometry, or Math Analysis • Must be US Citizen or Permanent Resident • Non-residential program (must be able to commute to campus daily) • No cost (lunch is included, but not transportation) 	<p>Not Yet Available – check program website for updates</p>	<p>Not Yet Available – check program website for updates</p>
<p>CNSI NanoExplorers Program Five-day summer workshop for high school students interested in advanced science and technology. Students learn about nanoscience and nanotechnology through intense hands-on experiments developed by UCLA graduate and postdoctoral researchers. Activities include lectures, discussions, hands-on experiments, scientific instrumentation trainings, and science career mentorship. http://nanosciencelab.cnsi.ucla.edu/</p>	<ul style="list-style-type: none"> • Current high school students • Cost \$650 (financial aid is available for those who qualify) • 2 college credits (towards UCLA) upon completion • Non-residential • No transportation provided • 35 students/summer 	<p>Enrollment starts spring 2012. Check program website for updates</p>	<p>July 9 – 13, 2012</p>

For other sites with multiple student enrichment programs, see:

- <http://www.mnps.org/Page67527.aspx>
- <http://www.mnps.org/Page66051.aspx>
- <http://oso.stanford.edu/programs/audiences/5-high-school-students>
- <http://www.summer.ucla.edu/Institutes/>

For more ideas and information about programs that might be a good fit:

- Check with local museums
- Talk to area colleges and universities
- Ask your math and/or science teacher