| Camp Name | Location | Description | Website |
|---|---|---|---|
| Computing Insights | University of Toronto, Ontario | A three-week summer program offering high school students the opportunity to explore the diverse world of computer science, including topics such as animation, human-computer interaction, cryptography and artificial intelligence. | **http://www.cs.toronto.edu/ci/docs/about.html** |
| Da Vinci Engineering Enrichment Program (DEEP) | University of Toronto, Ontario | Math and science are used to solve advanced, real-world engineering problems. | **http://enrichment.uoftengineering.com/deep09/** |
| Perimeter Institute International Summer School for Young Physicists | Perimeter Institute, Waterloo, Ontario | The International Summer School for Young Physicists (ISSYP) is an exciting and challenging two-week program for Canadian students in Grade 11 (or secondaire V in Quebec) and international students ages 16 and 17. The program explores the most fascinating ideas theoretical physics has to offer — from the weird quantum world of atoms and subatomic particles to black holes, warped spacetime, and the expanding universe.<br><br>Besides learning incredibly cool stuff, students get chance to work with leading international theoretical physicists in mentoring sessions while creatively exploring their own interests and ideas. | *http://www.perimeterinstitute.ca/Outreach/Students/ISSYP/* |
| Michigan Math & Science Scholars (MMSS) | University of Michigan, Ann Arbor, Michigan | Offers current high school students the opportunity to explore math and science at the cutting edge of research. Topic areas include Physics, Astronomy, Biology, Chemistry, Geology, Mathematics, and Statistics. Hands-on learning emphasized, with laboratory research, field work and computer laboratories. | http://www.math.lsa.umich.edu/mmss/ |

| Camp Name | Location | Description | Website |
|---|---|---|---|
| Duke TIP Institute Special Program: **Above and Beyond: Astronomy, Physics and Astrobiology** | Duke University, Durham, North Carolina | Study and live at the PARI Observatory, once a high-security satellite tracking station for NASA, and conduct research with leading experts in the field.Utilize high-tech equipment, including two 26-meter radio telescopes similar to those in the Very Large Array in New Mexico, and operate optical and radio telescopes. Investigate cosmic motion and analyze galaxy star formations, black holes, and quasars. Canoe along the magnificent French Broad River and hike through the scenic Pisgah National Forest. Students may have the opportunity to take academic field trips or engage in residential activities that take place off campus. Students will be transported by Duke TIP staff members in a rental vehicle.<br>With parental permission, students may be permitted to participate in a canoe trip along the French Broad River.<br>Students will be hiking through the Pisgah National Forest. | www.tip.duke.edu/summer_programs/field_studies.asp |

| Camp Name | Location | Description | Website |
|---|---|---|---|
| Duke TIP Institute Special Program: Institute of Advanced Maths: Dynamical Systems and Chaos Theory | Duke University, Durham, North Carolina | Learn why phenomena such as the motion of galaxies and planets, population growth, and weather patterns behave "chaotically." Discover the splendor of fractals, a mathematical object of immense beauty and infinite complexity. Learn about advanced applications of complex numbers, otherwise known as "imaginary" numbers, and recent developments in dynamical systems, one of the most active branches of mathematics. Students may have the opportunity to take academic field trips or engage in residential activities that take place off campus. Students will be transported by Duke TIP staff members in a rental vehicle. Students will visit select locations on and off of the Duke University campus in groups of two or more without adult supervision, but will not be permitted off campus without adult supervision after dark (9 PM at the latest) throughout the duration of the program. We encourage you to read the full course description and the Parent/Student Guide as they contain a great deal of valuable information about the program. | www.tip.duke.edu/summer_programs/field_studies.asp |

| Camp Name | Location | Description | Website |
|---|---|---|---|
| Program in Mathematics for Young Scientists (PROMYS) | Boston University, Boston, Massachusetts | PROMYS is a six-week summer program at Boston University designed to encourage motivated high school students to explore the creative world of mathematics in a supportive community of peers, counselors, research mathematicians, and visiting scientists. Dedicated to the principe that no one will be unable to attend for financial reasons. | http://www.promys.org/ |

| Camp Name | Location | Description | Website |
|---|---|---|---|
| SMART Residential Program | University of California, Riverside | High school students interested in mathematics, biology, chemistry, and physics are encouraged to participate in the 2005 SMART Residential Program. Students will reside on campus at University of California, Riverside dormitories for one, five, or six weeks while participating in a program designed to promote academic and personal growth. During the first week, students can participate in the "Frontiers in Nanotechnology and Engineering for Students" program and will work on projects related to the new frontiers of nanomedicine and nanoelectronics. Students will have an opportunity to interact with UC Riverside faculty, PhDs, PostDocs, and other undergraduate and graduate students in science and engineering, as well as receiving a tour of the campus's state-of-the-art laboratories. Students can move in or continue in the residence hall to take an undergraduate course of their choice from a recommended course listing during the remaining five weeks. Optional weekend trips to Southern California's popular theme parks and locales are built into this program to expose students to the lifestyle and culture of Southern California. Additional academic opportunities will be offered to include expanded vocabulary, grammar, computer use, and improving your college entrance testing. Take advantage of this extraordinary academic opportunity and learn about campus life, what it really takes to succeed in college, and your abilities to meet the expectations. | SummerAcademy.ucr.edu |

| Camp Name | Location | Description | Website |
|---|---|---|---|
| Stanford University Mathematics Camp (SUMaC) | Stanford University, Palo Alto, California | Stanford University Mathematics Camp (SUMaC) is for high school students who have exceptional mathematical interest and ability, and who would enjoy being challenge during four weeks of intensive, in-depth, mathematical pursuits. SUMaC provides an environment that fosters social and intellectual development centered on the study and enjoyment of mathematics. $3400. | math.stanford.edu/sumac |
| Camp CAEN (Computer Aided Engineering Network) | University of Michigan, Ann Arbor, Michigan | Now in its 12th season, Camp CAEN has emerged as one of the nation's premiere computer and technology camps. Camp CAEN is offered by the Computer Aided Engineering Network (CAEN) at the University of Michigan College of Engineering. Knowledgeable staff, including enthusiastic engineering student mentors, teach classes that range from Java/C++ Programming to Web Site Development and 3D Modeling and Rendering. From the engineering student labs to an immersive Virtual Reality CAVE, high-tech is here and you are invited to discover the endless possibilities awaiting you at the U-M College of Engineering. | campcaen@engin.umich.edu |

| Camp Name | Location | Description | Website |
|---|---|---|---|
| Smith College Summer Science And Engineering Program | Smith College, Northampton, Massachusetts | The Smith Summer Science and Engineering Program (SSEP) is a four-week residential program for exceptional young women with strong interests in science, engineering and medicine. Each July, select high school students from across the country and abroad come to Smith College to do hands-on research with Smith faculty in the life and physical sciences and in engineering. Girls who will be in high school (grades 9-12) in fall 2011 are eligible to apply for the summer 2011 program. Telescopes and Astronomical Engineering. | www.smith.edu/summerprograms/ssep/index.php |
| California State Summer School for Math and Science (COSMOS) | University of California, Davis | COSMOS is a four week residential academic program for high achieving math & science students completing grades 9*-12 (*8th graders taking math/science courses beyond the typical track may also apply). COSMOS is at 4 University of California campuses: UC Davis, UC Irvine, UC San Diego, & UC Santa Cruz. | www.ucop.edu/cosmos |

| Camp Name | Location | Description | Website |
|---|---|---|---|
| Young Engineering and Science Scholars (YESS) | California Institute of Technology, Pasadena, California | The YESS program at Caltech aims to challenge students beyond the traditional high school classroom environment by providing first-hand exposure to research scientists and engineers as well as an introduction to the university science and engineering culture. During the three-week program, students take two research-oriented science courses. Other program activities include laboratory tours, faculty lectures, college admissions workshops, and field trips to local attractions. There is no cost for students to attend the YESS program. Caltech covers all program-related expenses including room and board and educational materials. Students are expected to provide their own transportation to and from Caltech. Financial assistance is available for transportation expenses for students that require it. Not offered in 2011. | www.yess.caltech.edu |

| Camp Name | Location | Description | Website |
|---|---|---|---|
| Research Science Institute, MIT | Massachusetts Institute of Technology, Cambridge, Massachusetts | The RSI is a highly selective, academically rigorous experience for promising high-schoolers, just like you, from all over the globe. Only about 80 students, including three DoDEA students, are ultimately chosen to attend the RSI, but if selected, you would participate in a six-week practicum at MIT focused on advanced research in the areas of mathematics, engineering and related scientific disciplines. You would conduct research with your peers, work closely with renowned professionals from various scientific backgrounds, and conclude your studies by presenting and defending your research. DoDEA is proud to have sent outstanding students just like you in past years and we want to encourage you to share in that proud legacy and apply for this remarkable program. | www.dodea.edu/students/rsi.cfm |

| Camp Name | Location | Description | Website |
|---|---|---|---|
| The Summer Science Program | New Mexico Institute of Mining and Technology, Socorro, New Mexico and Westmont College, Santa Barbara, California. | The Summer Science Program (SSP) is a residential enrichment program in which gifted high school students complete a challenging, hands-on research project in celestial mechanics.By day, students learn college-level astronomy, physics, calculus, and programming. By night, working in teams of three, they take a series of telescopic observations of a near-earth asteroid, and write software to convert those observations into a prediction of the asteroid's orbit around the sun. Stimulating guest speakers and field trips round out the curriculum. This prestigious program has drawn young scientists from around the world for 50 years, accelerating their intellectual and personal development, and inspiring them to seek equally challenging educational and career paths. Many SSP alumni have gone on to distinguish themselves at selective universities, then to positions of leadership in their chosen careers. Established in 1959 at Thacher School in Ojai, California, SSP became an independent non-profit in 2000. It now takes place at two campuses: New Mexico Institute of Mining and Technology in Socorro, and Westmont College in Santa Barbara, California. | www.summerscience.org/home/index.php |

| Camp Name | Location | Description | Website |
|---|---|---|---|
| Lewis' Educational & Research Collaborative Internship Project, NASA | Glenn Research Center, Cleveland, Ohio | Lewis' Educational & Research Collaborative Internship Project, or LERCIP, is an educational, summer opportunity for eligible college students (graduating high school seniors through doctoral candidates) from across the U.S. and Puerto Rico. Students receive a 10-week, paid internship and, if eligible, travel reimbursement. The project provides students with introductory professional experiences to complement their academic programs and research interests primarily in the science, technology, engineering and mathematics careers. | www.nasa.gov/offices/education/programs/descriptions/LERCIP_College.html |

| Camp Name | Location | Description | Website |
|---|---|---|---|
| QuarkNet Summer Research at Fermilab | Fermilab, Batavia, Illinois | Must be a U.S. citizen. What are neutrinos telling us? Are there extra dimensions of space?<br><br>What happened to the antimatter?<br><br>High school students work with Fermilab scientists and engineers who advance our understanding of the nature of matter and energy. QuarkNet offers summer research opportunities in science and technology for students who have demonstrated a strong interest in and aptitude for science and mathematics. Two teams consisting of four students and one teacher work for six weeks with scientists or engineers on projects related to the Fermilab research program.<br><br>Read about research projects from previous summers.Students receive a stipend of $8.50 an hour for 35 hours of work per week. Standard U.S. taxes are withheld, as is customary with all Fermilab employees. Students receive no paid sick leave or vacations. | ed.fnal.gov/interns/programs/quarknet/index.shtml |

| Camp Name | Location | Description | Website |
|---|---|---|---|
| TARGET: Science and Engineering Program at Fermilab | Fermilab, Batavia, Illinois | This program at Fermilab is a highly competitive paid six-week summer internship opportunity for high school sophomores and juniors who have strong interest and demonstrated aptitude for mathematics and the sciences, physics, in particular. The program's goals are to encourage high school students to undertake college study and pursue careers grounded in physics, mathematics, engineering, and technology.<br><br>TARGET aims to grow representation of underrepresented groups (Black, Hispanic, Native American and women) in the sciences and engineering at the college level and consequently the workforce.<br><br>Each student is paid an hourly rate of $8.25 for 20 hours of work per week. In addition, each student receives a weekly stipend of $40 for the completion of classroom hours. Summer interns receive no paid sick leave or vacation. Standard U.S. taxes will be withheld, as is customary with all Fermilab employees. Each TARGET intern is required to provide evidence of their identity and eligibility to work in the U.S. | ed.fnal.gov/interns/programs/target/index.shtml |

| Camp Name | Location | Description | Website |
|---|---|---|---|
| Canada/US MathCamp | Reed College, Portland, Oregon | Canada/USA Mathcamp is an intensive 5-week-long summer program for mathematically talented high school students, designed to expose these students to the beauty of advanced mathematical ideas and to new ways of thinking. More than just a summer camp, Mathcamp is **a vibrant community**, made up of a wide variety of people who share a common love of learning and passion for mathematics. At Mathcamp, students can explore **undergraduate and even graduate-level topics** while building problem-solving skills that will help them in any field they choose to study. | www.mathcamp.org/ |
| TRIUMF High School Fellowship | TRIUMF, Vancouver, BC | TRIUMF's high school fellowship program offers fellowships each year to graduating secondary students entering their first undergraduate year at a recognized post-secondary institution.<br>The fellowship includes an award of $3,000 and a six-week summer research experience at TRIUMF.<br><br>The intent of TRIUMF's high school fellowship program is to motivate graduating students with a passionate interest in science to pursue a career in the sciences, especially physics, by offering them the opportunity to experience a real life research environment. | www.triumf.ca/outreach/high-school-fellowship |