

High School Math Camps

A*-Math Camp

Location: Santa Clara University, *Santa Clara, CA*

Web site: <http://starleague.us/index.php/a-star>

Description: A-STAR program offers courses and camps in math and computer science. Each course prepare students to compete at targeted competition of the course taken. By competing in such competitions, students will have a chance to differentiate themselves from other applicants when applying for a highly selective college. Our program is one of the best!

ALL GIRLS/ALL MATH

Location: University of Nebraska-Lincoln, *Lincoln, NE*

Web site: <http://www.math.unl.edu/programs/agam>

Description: Camp participants, girls grades 10-12, will learn about the exciting mathematics of Codes. The girls will work with women mathematics professors and graduate students, and interact with peers who share an interest in mathematics. They stay in a UNL residence hall and are chaperoned by a female mathematics graduate and undergraduate student. Two camps 7/13 - 7/19 and 7/20 - 7/26

AwesomeMath Summer Program

Location: University of Texas at Dallas, *Dallas, TX* and University of California at Santa Cruz, *Santa Cruz, CA*

Web site: <http://www.awesomemath.org>

Description: Three weeks for mathematically gifted students around the world. These students will hone their problem solving skills in AMC 12, AIME or USAMO. U of T, Dallas: 6/8 - 6/25, Cornell: 6/29 - 7/18, California: 7/22 - 8/10

Camp Euclid

Location: Online

Web site: <http://euclidlab.org/programs/camp-euclid>

Description: Camp Euclid is a *mind-tingling* mathematics research program for middle school and high school students. Participants will encounter *solution-defying* math problems (which have *never been solved before*).

COSMOS: California State Summer School for Mathematics and Science

Location: University of California 4 campus locations - *UC Davis, UC Irvine, UC Santa Cruz, UC San Diego*

Web site: <http://www.ucop.edu/cosmos/>

Description: A five week course taught by active UC faculty and researchers. Courses include Mathematical Biology and Number Theory

Canada/USA Mathcamp

Location: Mathematics Foundation of America, *Location varies*

Web site: <http://www.mathcamp.org/>

Description: 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.

Source: American Mathematical Society

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CCNY Scholars Program

Location: City College of the City University of New York, *New York, NY*

Web site: <https://summerscholarsacademy.theschoolsystem.net/ssa.html>

Description: The CCNY Scholars Academy is a summer program that provides highly motivated high school students an opportunity to enroll in challenging mathematics and science courses in a 5-week intensive program. This summer's program will take place from July 2nd through August 2nd, Mondays through Thursdays from 9 am to 4 pm at the City College of New York on 138th Street and Convent Avenue.

Hampshire College Summer Studies in Mathematics (HCSSiM)

Location: Hampshire College, *Amherst, MA*

Web site: <http://www.hcssim.org> and <http://www.yp17.org>

Description: Now in its 42nd year, HCSSiM is an intensive six-week encounter with college-level mathematics for talented and highly motivated high school students. It is demanding and expanding. Participants spend a major portion of each day actively engaged in doing mathematics (not simply learning the results of mathematics).

Institute for Mathematics and Computer Science (IMACS) Hi-Tech Summer Camp

Location: Various locations in Florida and North Carolina

Web site: and <http://www.imacs.org/math-computer-science/educational-summer-programs/>

Description: Our program consists of logic puzzles, computer programming, virtual robotics, electronics, and an element of competition. Working solo and in teams, kids learn how to think logically and creatively while having fun. Every participant is motivated to come up with their own solutions, yet IMACS also encourages collaboration among kids with similar interests, creating a sense of belonging, as well as accomplishment.

International Mathematical Camp “Formulo de Integreco”

Location: The Euler Foundation and Saint Petersburg State University, *Losevo, Leningrad Area, Russia*

Web site: http://www.euler-foundation.org/?page_id=579/

International Mathematical Summer School for Students (for students in the last 2 years of high school only)

Location: Jacobs University, *Bremen, Germany*

Web site: <http://math.jacobs-university.de/summerschool/2013/>

Description: The Euler Foundation and Saint Petersburg State University announce the realization of the second International Mathematical Camp “Formulo de Integreco” (see the general description and history of the program here). The camp will take place from 15 to 31 July 2013, in a recreation center “Parus” (Leningrad region, Losevo community), that is situated on the side of the Lake Sukhodolskoye (100 km to the north of St. Petersburg). Accommodation will be in rooms for 2-4 person in warm buildings, that undergone restoration. Facilities are available at every floor.

MathILy

Location: Bryn Mawr College, *Bryn Mawr, PA*

Web site: <http://www.mathily.org/>

Description: MathILy is designed for students with an insatiable curiosity about mathematics, and who are creative and enthusiastic in their approaches to learning. We expect that participants will come from all over the United States and, perhaps, the world.Z

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Mathlinks Summer Math Camp

Location: San Diego State University, *San Diego, CA*

Web site: <http://mathlinks.us>

Description: We are a three-week (July 7-July 27, 2013) residential math summer program for students ages 11 to 18, based in San Diego, California. Our goal is to help improve our students' problem solving abilities, all in a fun and challenging environment. Our faculty includes Valentin Vornicu, who has been an Art of Problem Solving Instructor for the past 5 years.

Math Zoom Summer Camp

Location: University of California, *Los Angeles, CA*

Website: <http://www.mathzoom.org>

Description: Math Zoom Academy will offer two residential summer camps in 2013, giving students a chance to live on a college campus for three weeks in an environment of exciting mental challenges, friendly competition, and refreshing recreation. The eastern camp will be held at Yale University in New Haven CT from June 23 to July 13, 2013. The western camp will be held at Cal State Fullerton from July 21 to August 10, 2013. A day camp option is available at both residential camp sites. For more information, click [here](#).

Michigan Math and Science Scholars

Location: University of Michigan, *Ann Arbor, MI*

Web site: <http://www.math.lsa.umich.edu/mmss>

Description: The Michigan Math and Science Scholars program is designed to offer a pre-college experience exposing students to a breadth of curriculums offered at the University of Michigan while introducing high school students to current developments and research in the sciences. The program is open to any high school rising sophomore, junior or senior from around the world! Two 2-week sessions are offered; students are given the opportunity to attend one or both sessions.

Program in Mathematics for Young Scientists (PROMYS)

Location: Boston University, *Boston, MA*

Web site: <http://www.promys.org>

Description: PROMYS is a six-week summer program at Boston University designed to encourage strongly motivated high school students to explore in depth the creative world of mathematics in a supportive community of peers, counselors, research mathematicians, and visiting scientists. Professor Glenn Stevens, the Director of PROMYS, founded the program in 1989 together with other members of the current faculty.

Quantum Cryptography School for Young Students

Location: University of Waterloo, *Waterloo, ON, Canada*

Web site: www.iqc.uwaterloo.ca/qcsys

Description: The Quantum Cryptography School for Young Students (QCSYS) is a unique, week-long enrichment program for students hosted by the Institute for Quantum Computing at the University of Waterloo. This year the program will run through August 11 — 15, 2014. The school offers an interesting blend of lectures, hands-on experiments and group work focused on quantum cryptography — a cutting-edge field that utilizes the fascinating laws of quantum mechanics to develop unbreakable encryption that protects communication.

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Research Science Institute (RSI)

Location: Massachusetts Institute of Technology, *Cambridge, MA*

Web site: <http://www.cee.org>

Description: RSI 2014 will take place at the Massachusetts Institute of Technology (MIT) beginning June 22nd through August 2nd. Each summer, 80 of the world's most accomplished high school students gather at the Massachusetts Institute of Technology (MIT) for the Research Science Institute (RSI). RSI is the first cost-free to students, summer science & engineering program to combine on-campus course work in scientific theory with off-campus work in science and technology research.

Ross Mathematics Program

Location: Ohio State University, *Columbus, OH*

Web site: <http://www.math.ohio-state.edu/ross/>

Description: The Ross Program at the Ohio State University is an intensive summer experience designed to encourage motivated pre-college students to explore mathematics. During those six weeks, students are immersed in a world of mathematical discovery.

Rutgers Young Scholars Program in Discrete Mathematics

Location: Rutgers University-New Brunswick, *Piscataway, NJ*

Web site: <http://dimacs.rutgers.edu/ysp/>

Description: The Rutgers Young Scholars Program in Discrete Mathematics is a summer program for mathematically talented high school students. It provides a mathematically rich environment to high school students interested in mathematics, and is designed to encourage them to consider careers in the mathematical sciences. Selected students participate in an intensive four-week residential academic program that provides a challenging introduction to discrete mathematics -- a new and growing area of the mathematical sciences with many applications on the cutting edge of modern research.

Stony Brook Mathematics Camp

Location: State University of New York (SUNY) at Stony Brook, *Stony Brook, NY*

Web site: <http://www.stonybrook.edu/cesame/students/MathCamp/mathcamphs.shtml>

Description: The program is designed for students who will be entering their junior or senior year in high school and who have an interest in enriching their mathematics education. During the two-week program students will explore several branches of mathematics, including: Knot Theory, Number Theory, Game Theory, Cryptography, Mathematics of finance, Biological mathematics.

Summer Institute for Mathematics at the University of Washington (SIMUW)

Location: University of Washington, *Seattle, WA*

Web site: <http://www.math.washington.edu/~simuw>

Description: SIMUW provides a carefully selected group of motivated high school students with ample opportunities to acquire a full appreciation of the nature of mathematics: its wide-ranging content, the intrinsic beauty of its ideas, the nature of mathematical argument and rigorous proof, the surprising power of mathematics within the sciences and beyond.

Summer Mathematics Institute

Location: Oakland University, *Rochester, MI*

Web site: <http://www.math.oakland.edu/ousmi.html>

Description: The Summer Mathematics Institute is a free opportunity for gifted pre-college students to interact with university faculty and each other, to take some challenging math classes that earn college credit, and have fun in an academic atmosphere.

Source: American Mathematical Society

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Summer Mathematics Program for High School Students

Location: University of Utah, *Salt Lake City, UT*

Web site: <http://www.math.utah.edu/hsp>

Description: The Summer Mathematics Program for High School Students at the University of Utah provides outstanding students an opportunity to develop their talents to the fullest. By presenting intriguing puzzles, challenging problems and powerful ideas, the program stimulates curiosity, develops the intellect, and lays a strong foundation for future work in mathematics, the sciences, or science related careers.

UCLA Mathematics Institute for Young Scholars

Location: University of California, Los Angeles, *Los Angeles, CA*

Web site: <http://www.curtiscenter.math.ucla.edu/k12.html>

Description: The Curtis Center aims to provide high quality mathematics activity for students in local schools. We hope to provide students with a view of mathematics as a creative reasoning and problem solving activity, with intrinsic beauty and meaningful application.

UConn Mentor Connection

Location: University of Connecticut, *Storrs, CT*

Web site: <http://www.gifted.uconn.edu/mentor/>

Description: UConn Mentor Connection is a summer program for rising high school juniors and seniors, held on the campus of the University of Connecticut at Storrs. We believe students' interests, abilities, and motivation are very important talents. We also believe that it is essential for students to have opportunities to manifest their talents in high levels of creative productivity. Our work is based on the following additional beliefs.