

Summer Programs, Competitions, and Opportunities

Table of Contents

Ivy League Summer Programs	Page 3
Architecture	Page 11
Business	Page 13
Classics Programs	Page 16
Computer Programs	Page 18
Digital Image, Video & Film, and Sound Recording	Page 19
English Literature and Creative Writing	Page 22
Fine Arts	Page 27
Foreign Languages	Page 36
Gender-Focused Opportunities	Page 39
Government, Law, and International Relations	Page 43
Great Books	Page 45
Humanities: History and Philosophy	Page 47
Leadership	Page 49
Mathematics and Science	Page 52
Military	Page 73
Minority-Focused Programs and Opportunities	Page 74
Pre-College Programs	Page 81
Social Justice	Page 87
Unique Opportunities	Page 88
Useful Websites about Jobs and Community Service	Page 91
Self-Guided Summer	Page 92
Self-Guided Tours	Page 95
Study Abroad	Page 96
Local Volunteer Opportunities	Page 98
Competitions, Contests, and Awards	Page 106

Ivy League Summer Programs: Summer Programs at Highly Competitive Schools

BROWN UNIVERSITY

INTENSIVE ENGLISH LANGUAGE

From website: this acclaimed summer program for high-achieving students offers immersive English language study for non-native speakers, along with courses that explore American and global culture, history, economics, and the arts. Small class sizes, events, and workshops maximize student participation and student-instructor interaction.

<http://www.brown.edu/academics/pre-college/iep/>

LANGUAGE AND CULTURE

From website: the complexity of global problems and the interdependence of all living things requires us to respect cultural differences, understand complicated systems, appreciate the impact of history and have the skills to build inclusive and effective communities. Global Programs offer rigorous academic experiences in the context of cultural immersions that prepare students for the increasingly complex challenges of the 21st century.

<http://www.brown.edu/academics/pre-college/international/>

LEADERSHIP INSTITUTE

From website: the Leadership Institute is designed for highly motivated and intellectually curious students who are interested in social issues. We look for young people who are excited to learn and want to make a positive difference in the world. Applications are open to qualified high school students from 9th grade through graduated seniors.

<http://www.brown.edu/academics/pre-college/leadership/>

SUMMER@BROWN

Courses offered through Summer@Brown are designed for students looking to experience college level academics on an Ivy League campus. Reflecting Brown's broad liberal arts curriculum, Summer@Brown features nearly 200 courses, designed and taught at the level of first year college courses, and ranging in length from one to four weeks. Resting on two principles at the core of a Brown undergraduate education - the open curriculum and a transcript that includes only successful course work – the program shifts the focus away from grades and credits and towards the learning itself. The program attracts likeminded students, ambitious and driven in their educational pursuits. This, combined with passionate instructors, fuels the program's engaging curriculum. Along with a robust co-curricular program, Summer@Brown is designed to help prepare students for the self-discipline and independence required for college level life and learning.

<http://www.brown.edu/academics/pre-college/pre-college-courses.php>

THEATREBRIDGE

From website: TheatreBridge serves as a connecting link between high school and college theatre and encourages a commitment to a life of creative engagement. The highly selective program provides promising young actors an opportunity to stretch their imaginations and skills and encourages students to achieve their highest potential.

<http://www.brown.edu/academics/pre-college/theatrebridge/>

COLUMBIA UNIVERSITY

BARCELONA EXPERIENCE

From website: A program, conducted in English, for students entering grades 11 or 12 or freshman year of college in fall 2015. The program is mounted in collaboration with the University of Barcelona, founded in 1450, the oldest university in Catalonia and the second largest in Spain. Students examine the history, art, urban development, and language of Barcelona, enriching their understanding of how European communities develop local, regional, national, and international identities. Students share a common three-course curriculum taught in English, supplemented by a Spanish-language workshop. University of Barcelona faculty members teach the courses.

<http://ce.columbia.edu/high-school/barcelona>

CULTURE AND HISTORY: UNDERSTANDING THE ARAB WORLD

From website: A pre-college summer program for students entering grades 11 or 12 or freshman year of college, organized in collaboration with King's Academy in Jordan and facilitated by the Columbia University Middle East Research Center in Amman. The program is conducted in English; no knowledge of Arabic is required. This program combines substantive reading and coursework with firsthand experience in an Arab country. Students live and study at King's Academy in Manja, Jordan, and travel extensively throughout Jordan with a variety of local guides and organizations. Participants emerge with a working knowledge of the history and cultures of the modern Arab world, phrases in conversational Arabic, valuable skills applicable in any academic context, and unforgettable experiences of life in Jordan.

<http://ce.columbia.edu/high-school/jordan>

ENTREPRENEURSHIP AND INNOVATION: CHANGING THE WORLD VIA VENTURE CREATION

From website: Intended for students interested in creating new business or social enterprises that can help change the world, this hands-on course focuses on the creation, evaluation, development, and launch-readiness of new business or social ventures. Participants are guided through the new venture creation process as applied to student team-selected venture ideas.

<http://ce.columbia.edu/high-school/nyc/junior-senior-courses/entrepreneurship-and-innovation-changing-the-world-venture>

SUMMER IN NY

From website: Now in its 29th year, Columbia University's New York City-based Summer Program for High School Students offers high-achieving students the opportunity to experience college life in the Ivy League while sampling the vibrancy of New York City. Open to students entering grades 9 through 12 and freshman year of college, the program combines academic rigor and instructional excellence with lively extracurricular offerings and careful supervision and support.

<http://ce.columbia.edu/high-school/nyc>

SUMMER TERM

From website: The Summer Term provides a wide variety of undergraduate- and graduate-level courses for matriculated Columbia students, visiting students from across the nation, and well as new and continuing non-degree students, including high school students. This is a great opportunity for a rising junior who is honing in on his or her academic interests.

<http://ce.columbia.edu/summer/calendars>

THEATRICAL COLLABORATION: THE ACTOR, THE DIRECTOR, AND THE PLAYWRIGHT

From website: Designed for students with experience in drama who are interested in developing original theatrical productions, the course emphasizes the working relationship between actor, director, and playwright, and the unique dynamic that exists between them when working on untried material. Workshops and lectures during the first week introduce students to the demands of play development. Students then elect to specialize in one of three areas: acting, directing, or playwriting. The remainder of the course is given over to the development of short plays to be written, directed, and acted by the students under the supervision of theatrical professionals. In small, autonomous groups of actors, each with its own director and playwright, students create a production to be mounted at the end of the program.

<http://ce.columbia.edu/high-school/nyc/junior-senior-courses/theatrical-collaboration-the-actor-the-director-and-the-playwright>

CORNELL UNIVERSITY (<http://ce.columbia.edu/high-school/nyc>)

CORNELL OCEANOGRAPHY OF THE GULF OF MAINE

See Math and Science

CORNELL RESEARCH APPRENTICESHIP IN BIOLOGICAL SCIENCES

See Math and Science

CORNELL UNIVERSITY SUMMER COLLEGE

From website: Cornell University Summer College - one of the oldest and most prestigious programs of its kind - invites talented high school sophomores, juniors, and seniors to its acclaimed three- and six-week precollege programs.

<http://www.sce.cornell.edu/sc/>

DARTMOUTH COLLEGE

DARTMOUTH DEBATE INSTITUTE

From website: With the DDI, you'll have a chance to work with the coaches of many of the best college debate programs in the country. We have instructors that specialize in policy, critical, and non-traditional arguments. Students can choose arguments that interest them to research and practice at the institute tournament. The DDI's unique competitive lab structure promotes constant strategizing against other labs' arguments before and during the tournament.

<http://ddidebate.org/>

DARTMOUTH SUMMER CAMP, HEALTH CAREERS

From website: The primary purpose of the Health Careers Institute is to allow students to explore a wide range of career possibilities in the field of health care, while learning about important issues and topics in health care today. Typical Health Careers Institute participants have expressed interest in working in health care and want to know more about clinical and non-clinical health careers and what to do next to help narrow their focus or pursue their dreams.

<http://tdi.dartmouth.edu/hcid#&panel1-1>

HARVARD COLLEGE

DISTANCE EDUCATION

From website: We offer more than 300 Harvard classes in several formats online to deliver convenient Harvard lectures to your computer or mobile device. Most of our distance education courses are offered in our 15-week fall or spring semester.

<http://www.extension.harvard.edu/distance-education>

SECONDARY SCHOOL PROGRAM

From website: Harvard's Secondary School Program can be life-changing. You'll experience a summer of challenge, discovery, connection, and growth. Here at Harvard, you'll evolve. And this evolution will not only make you a stronger college applicant, it'll make you a more independent, confident individual. See for yourself this summer in the Secondary School Program. Experience Harvard for seven weeks, and take college courses

in a subject area that interests you. Scholarships are available to assist Secondary School Program students with outstanding academic records who demonstrate financial need.

<http://www.summer.harvard.edu/programs/secondary-school-program>

SUMMER SEMINARS: MATH, DRAMA, AND WRITING PROGRAMS

From website: High school juniors and seniors can register for summer seminars—inspired by the renowned freshman seminars at Harvard College. Limited to 15 students, these seminars offer an intense academic experience and are a great introduction to small college classes.

<http://archive.summer.harvard.edu/programs/ssp/academics/>

PRINCETON UNIVERSITY

AIU HIGH SCHOOL DIPLOMATS

From website: At Princeton, students from both Japan and America spend ten days living and socializing with each other. The program is designed to expose the students to both cultures through daily themes and activities. High School Diplomats brings American and Japanese students together at Princeton University for a cross-cultural and educational exchange program. All current sophomores and juniors are encouraged to apply. There is no cost to the participants. Japanese is not a pre-requisite.

<http://www.highschooldiplomats.com/america/php>

PRINCETON PREPARATORY PROGRAM

From website: Founded in 2001 by the Princeton University Program in Teacher Preparation, the Princeton University Preparatory Program (PUPP) is a rigorous, academic and cultural enrichment program that supports high-achieving, low-income high school students from local districts. Our multi-year, tuition-free program prepares participants for admission to and ongoing success within selective colleges and universities.

<http://www.princeton.edu/pupp/>

THE DAILY PRINCETONIAN SUMMER JOURNALISM PROGRAM

From website: Classes at the program are taught by reporters and editors from *The New York Times*, *The Washington Post*, *Newsweek*, *The New Republic*, *The New Yorker*, CNN and ABC News, among other media outlets. Students tour the *Times*, *Newsweek*, and CNN; cover a professional sports event; cover news events in the Princeton area; film and produce a TV segment; conduct an investigative project; author a group blog; and report, write, edit and design their own newspaper, *The Princeton Summer Journal*, which is published on the program's last day. The program is also designed to give students a taste of what life is like at one of the best colleges in the country—students live on campus and eat in one of the university's cafeterias—and to prepare them to apply to top schools. Students meet with Princeton's top professors as well as the school's president and its dean of admissions. Students attend seminars on every aspect of the college admissions process. They also take a practice SAT and attend an SAT class taught by Princeton Review. The program's 2014 schedule can be found here. After students return home, program staff remain in contact with them, assisting them during the college application process and helping them to apply for journalism internships once they are in college.

<http://www.princeton.edu/sjp/>

UNIVERSITY OF PENNSYLVANIA

LEADERSHIP IN THE BUSINESS WORLD

From website: Leadership in the Business World (LBW) is an intensive summer pre-college program for rising high school seniors who want an introduction to the fundamentals of leadership in business. This four-week summer program features classes at Wharton, company site visits, and activities designed to give students opportunities to learn about leadership in 21st century business organizations.

<https://www.wharton.upenn.edu/pre-college-programs/>

MANAGEMENT & TECHNOLOGY SUMMER INSTITUTE

From website: The Management & Technology Summer Institute (M&TSI) is a for-credit summer program for rising high school seniors who want to learn how to bring together technological concepts and management principles. The Institute features classes taught by leading Wharton faculty and successful entrepreneurs, as well as laboratory experience, field trips to companies and R&D facilities, intensive team projects, and other activities designed to help students learn the principles and practice of technological innovation. Sponsored jointly by The Jerome Fisher Program in Management and Technology, the School of Engineering and Applied Science, and the Wharton School of the University of Pennsylvania.

<http://www.upenn.edu/fisher/summer-mt>

PRE-COLLEGE PROGRAM

From website: The Pre-College Program is designed for rising juniors and seniors interested in the intellectual challenge and rigorous pace of a true undergraduate experience. Students enroll in one or two summer courses alongside Penn undergraduates. Our program offers more than thirty undergraduate courses in exciting disciplines taught by Penn faculty, staff, and visiting scholars. Successful completion of courses will result in official academic credits and a Penn transcript. Academic advising, access to university learning resources, and college admission workshops are also provided.

<http://www.sas.upenn.edu/summer/programs/highschool/precollege>

PENN SUMMER ACADEMIES

From website: Penn Summer Academies are academically rigorous, subject intensive programs which fuse traditional classroom instruction with experiential learning opportunities. Academies meet Monday through Friday, roughly 9am to 4pm, and include morning lectures and discussion groups complemented by guided laboratory research or relevant field trips. All programs are overseen and taught by Penn faculty or staff, ensuring students are met with a challenging Ivy League curriculum. Programs conclude with a capstone project designed to hone skills learned throughout the academy.

<http://www.sas.upenn.edu/summer/programs/highschool/academies>

SUMMER SCIENCE ACADEMY

Penn Summer High School Programs, open to residential and commuting students, offer an outstanding academic challenge. Our programs are built around courses taught by Penn faculty, scholars, and distinguished outside experts. With small class sizes you can be sure to get the individualized attention you deserve. Residential programs include academically based extracurricular activities such as SAT preparation workshops, a college writing series, and presentations about college admission.

<http://www.sas.upenn.edu/summer/programs/highschool>

PENN CHINESE ACADEMY

See Foreign Language

WHARTON SPORTS BUSINESS ACADEMY

From website: Sponsored by the Wharton Sports Business Initiative (WSBI), the Wharton Sports Business Academy (WSBA) is a summer program that provides an opportunity for talented rising high school juniors and seniors to study sports business leadership at the Wharton School of the University of Pennsylvania. This program will examine how various academic disciplines, such as management, law, negotiation, marketing, and leadership apply to the sports industry with an overview of the business and legal aspects of various intercollegiate, Olympic, and professional sports enterprises.

<https://www.wharton.upenn.edu/pre-college-programs/>

STANFORD UNIVERSITY

STANFORD HIGH SCHOOL SUMMER COLLEGE

From website: Stanford High School Summer College is where exceptional students take Stanford undergraduate courses and earn college credit during the summer quarter. Students choose anywhere from one to five courses out of 145 offered in 30 academic departments. Residential, commuting, and online options are available.

<https://summercollege.stanford.edu/>

YALE UNIVERSITY

ASPIRATIONS FOR HIGHER LEARNING

From website: The AFHL Pre-Collegiate Institute is a six-week summer program run by New Haven Public Schools and hosted by Yale designed to motivate, prepare, and inspire students in grades 9–12 for college admissions and college success. The academic and career development focus is on science, mathematics, and written communication. Students are able to access many of the exciting learning programs on Yale's campus

and visit colleges and sites of career interest around Connecticut. Students receive 1.5 academic credits for successful completion of the program.

<http://onhsa.yale.edu/summer-programs>

CRISP HIGH SCHOOL RESEARCH FELLOWSHIP

From website: The CRISP High School Research Fellowship provides rising high school juniors and seniors with the opportunity to conduct team-based interdisciplinary materials science research. Participating students conduct a four-week research project as members of a research team that also includes university faculty and undergraduate and graduate students.

<http://crisp.yale.edu/research-experience-high-school-students>

DISCOVERY TO CURE HIGH SCHOOL INTERNSHIP

The program exposes students to laboratory research and promotes interest in science and medicine. Rising high school seniors spend six weeks working in a laboratory with a research scientist utilizing research techniques such as gel electrophoresis, RTPCR, immunohistochemistry, and electron microscopy. Since its inception in 2003, a total of over 260 high school students, undergraduates and high school teachers have successfully completed the Program. Several interns have presented their research work at science fairs and approximately 20% of student interns have published their findings in peer-reviewed scientific journals.

<http://onhsa.yale.edu/summer-programs>

YALE YOUNG GLOBAL SCHOLARS PROGRAM

From website: The Yale Young Global Scholars Program is a two-week academic enrichment and leadership training program for talented high school students from around the world, who live and study on the Yale campus during the summer. Students currently in the 10th grade or 11th grade are eligible to apply.

<http://onhsa.yale.edu/summer-programs>

Architecture

ARCHITECTURE CAREER DISCOVERY PROGRAM AT RENSSELAER POLYTECHNIC INSTITUTE

From website: This two-week program focuses on an introduction to the theory of architecture, computing and simulation, freehand and extreme drawing, building ecologies and design. Students will be individually critiqued and tutored in design studios, group and individual projects, reviews, and public presentations. High school students will experience the rigors and rewards of a college-level architecture studio first hand. The program provides specific architectural training and enables students to make more informed decisions regarding their college careers.

<http://summer.rpi.edu/programs/2014/architecture>

ARCHITECTURE AND URBAN DESIGN

The UCLA Department of Architecture and Urban Design offers a six-week program exploring architectural education for individuals contemplating careers in architecture, design, and related fields. The program has two tracks, carrying 6 and 11 quarter units of UC credit respectively. Both tracks are structured around the experience of a design studio typically offered within the curricula of graduate programs. Intensive design exercises using the latest computer aided techniques in 3D modeling lead to complex and sophisticated architectural projects that ultimately conform a robust basis for applications to graduate programs.

<http://www.summer.ucla.edu/institutes/JumpstartArchitecture>

EXPERIENCE IN ARCHITECTURE AT THE CATHOLIC UNIVERSITY OF AMERICA

From website: The Experiences in Architecture program at The Catholic University of America is an intense three-week workshop for students interested in architecture or other design related fields. Students are exposed to both the academics and the professional sides of the architecture arena, as the city of Washington, D.C., becomes their classroom. The Experiences in Architecture program will better prepare you for the rigors of architecture school, giving you a head start, as well as acquaint you with campus life at the university level. Students, who have participated in EiA's summer workshop, or a similar pre-college program, are better prepared for success at the university level.

<http://summer.cua.edu/precollege/>

EXPERIMENT IN ARCHITECTURE

From website: Students will tour the city of Chicago, complete a series of design projects, and attend lectures by IIT faculty. The program is intended to inform students about the study and practice of architecture, and will assist participants in making an informed decision about pursuing an architectural education and career. All individuals interested in pursuing a career in the design and building professions are encouraged to attend.

<http://arch.iit.edu/study/experiment-in-architecture>

CAREER EXPLORATIONS IN ARCHITECTURE

From: Students will spend their three weeks in Tulane School of Architecture exploring the ideas, methods, and issues of architecture. Lectures, field trips, discussions, critiques, and other activities during the four-hour daily class session will be supplemented by regular design exercises to be completed outside class time. Students will sample the intensity as well as the subjects of a collegiate architecture curriculum. This program is designed for students who have completed their sophomore year of high school.

<http://architecture.tulane.edu/outreach/career-explorations>

Business

B.E.S.T. SUMMER PROGRAM AT THE UNIVERSITY OF DAYTON

From website: Explore your interests with the B.E.S.T. summer program – a special blend of academic and hands-on learning centered around business, engineering, science and technology. As part of this program, you will get a head start on college by taking six hours of college credit, which can be transferred to any college or university. You'll also gain a global perspective and interact with students from around the world.

<https://udayton.edu/apply/undergraduate/hsprograms/best.php>

BUSINESS CAREERS AWARENESS PROGRAM (BCAP) AT THE UNIVERSITY OF ARIZONA

From website: The Business Careers Awareness Program (BCAP) at the University of Arizona would like to invite all juniors to apply for a chance to participate in an outstanding summer opportunity. The BCAP program is an annual weeklong event sponsored by Ernst & Young and the University of Arizona Accounting Department, and is offered free of charge to students. Students who are selected will be housed on campus in dormitories and participate in numerous activities and field trips designed to expose underrepresented student populations to the accounting profession and its various career opportunities. Participants experience the life of a college student while developing and presenting a business plan to accounting professionals. BCAP is an excellent resource for students who have the ability to attend college, but may not believe that they can find funding, or may not have family support for this choice. It is also aimed at talented students who would like to explore the potential of a business major before they start college.

<http://accounting.eller.arizona.edu/bcap/>

CLEMSON ENTREPRENEURSHIP AND PROFESSIONAL COMMUNICATION

From website: This workshop focuses as much on communicating your vision to others as it does on developing your vision itself. You will learn and practice the writing, speaking, design and digital communication skills necessary to persuade others that your business is the solution to their problem. You will engage with several different communication exercises ranging from authoring a 140-character mission statement to designing a business card and logo to presenting a five-minute “shark tank pitch” on the way to completing a business plan for your idea.

<http://www.clemson.edu/summer/summer-science/coursedescriptions/Emerging.html>

ECONOMICS FOR LEADERS (CALIFORNIA)

From website: The goal of the Economics for Leaders (EFL) program is to give promising students the skills to be more effective leaders and to teach them how to employ economic analysis when considering difficult public policy choices. Given the existing challenges confronting our nation and, assuming that problems in years to come will be equally consequential, the job of preparing the next generation of leaders may be one of the most important actions we can take now to ensure our well-being in the future. The Foundation for Teaching Economics is committed to finding and nurturing those budding leaders. EFL is a selective summer program

that teaches leaders how to integrate economics into the process of decision-making in a hands-on, experiential environment.

<http://www.fte.org/student-programs/economics-for-leaders-program/>

ENTREPRENEURSHIP SUMMER CAMP

From website: Birmingham-Southern's Entrepreneurship Summer Camp immerses aspiring entrepreneurs in their junior or senior year of high school into a highly collaborative week-long, residential business program. Over six days, campers will work in teams to construct their own unique business plans with the opportunity to win a \$4,000 Stump Entrepreneurship Scholarship to BSC. Teen entrepreneurs will engage in a curriculum based on sound business principles to enhance their entrepreneurial mindset and skills. Campers will experience real-world business activities through case studies, role-playing, and sessions with local entrepreneurship experts and business leaders.

For more information, contact Amy Hayes at ahayes@bsc.edu.

FUNDAMENTALS OF BUSINESS: LEADERSHIP IN A GLOBAL ECONOMY

From website: You will be introduced to business leadership, which provides an exceptional foundation for college and a future career in business. As a participant in this course, you will gain valuable exposure to important business topics and methods of analysis as you learn from Georgetown professors and leading experts in the field. Combining investment challenges and group presentations with dynamic faculty lectures and case studies, Fundamentals of Business helps students develop practical skills and critical thinking abilities that will benefit them in their future academic and professional lives. The course ends with a business simulation that takes students through the process of starting a company and being an entrepreneur.

<http://scs.georgetown.edu/programs/108/fundamentals-of-business-leadership-in-a-global-economy/>

THE QUANTITATIVE FINANCE SUMMER INSTITUTE

From website: QFSI aims to give high school students a practical knowledge of the quantitative and analytical methods used in modern finance. This week-long seminar, hosted on the campus of Samford University in Birmingham, Alabama, offers students a challenging curriculum that goes beyond basic financial market education and utilizes advanced skills sets such as calculus, data analysis, and multi-level critical thinking.

<https://www.samford.edu/university-fellows/summer-programs/>

LEADERSHIP IN THE BUSINESS WORLD

Please see Princeton University's Course Offerings

LEAD SUMMER BUSINESS INSTITUTES

Please see Princeton University's Course Offerings

LEBOW COLLEGE OF BUSINESS SUMMER PROGRAM AT DREXEL UNIVERSITY

From website: LeBow College of Business offers a variety of pre-college programs to expose high-achieving high school students to the world of business. Students learn directly from LeBow's distinguished faculty members at our main Drexel University campus in Philadelphia. Our programs provide students with skills and experiences that are valued by college admissions counselors, and students who complete our programs retain a depth of knowledge as well as lifelong friendships with peers from across the country.

<http://www.lebow.drexel.edu/resources/admissions/undergraduate/pre-college-programs>

OPPORTUNITIES TO LEARN ABOUT BUSINESS @ WABASH

From website: OLAB is a one-week hands-on introduction to business and the market economy for young women and men entering their senior year in high school. Considered one of the premier summer programs in Indiana, OLAB teaches students that business can be fun, creative, challenging, and rewarding. The highlight of the week is "The Game." In addition to lectures by business leaders and Wabash faculty, students work in teams running a mock business. There is also time for recreation, as well as social activities in the evenings. To see a sample daily schedule, view the "At a glance" page.

<https://www.wabash.edu/olab/>

WALL STREET 101

From website: Wall Street 101 is held at the Bentley University campus in Waltham, MA. This 5-day non-residential program provides a fun and interactive opportunity for rising high school students to learn about the financial industry and other business fields, from NASDAQ to IPO to Dow Jones. Through classroom participation and hands-on exercises, students will explore the stock market and discover the process of investment. They will also experience the excitement and challenges of working in a real trading room environment, including participation in industry analysis, portfolio construction and simulated trading sessions.

<http://www.bentley.edu/centers/trading-room/wall-street-101>

Classics Programs

ANCIENT STUDIES INSTITUTE

From website: The Ancient Studies Institute promotes research about the ancient world and encourages the study of its languages and cultures. Students may take as many or as few lessons as they wish and begin at any convenient time. Research and teaching projects include Lactantius and Nonviolence, Greek grammatical terminology, and compiling vocabulary and grammatical aids; for these projects, Latin or Greek and computer skills are necessary and French and German are helpful.

<http://www.ancientstudiesinstitute.org/Minerva/HOME.html>

CANE SUMMER INSTITUTE

From website: Hosted by a different university each year, CANE Summer Institute, Exegi Monumentum: Creating the Everlasting in the Ancient World takes place in late July. You will enjoy an enriching educational experience that includes a wide variety of mini courses, lectures, workshops, and special events celebrating the ancient Greek and Roman achievements of monumenta, while also offering ample opportunity for collegial interaction between participants. For any inquiries, please contact the CSI Director, C. Emil Peñarubia: CANE.Summer.Institute.2015@gmail.com.

CONVENTICULUM LATINUM LEXINTONIENSE -- CONVERSATIONAL LATIN SEMINARS

From website: The summer Latin seminar provides a stimulating occasion in which participants can live for an extended period of time in an all-Latin environment, speaking and hearing no language but Latin. Not surprisingly, many participants will find that cultivating the active use of Latin in both speaking and writing helps their reading fluency. Not only teachers, who wish to develop their ability to use Latin actively and extempore in the classroom in order to enliven the learning experience for students, and to augment whatever teaching methods they prefer to use, but anyone at all devoted to Latin, such as researchers and those who read Latin for personal enrichment, can benefit from the seminar. In fact, the most important function of the seminar is to help those who take part in it to acquire a more instinctive command of the Latin language. With such a command of Latin a person can understand Latin writings more directly and easily, without being compelled so often to translate and to think in another language. Since 2010, an additional active Latin seminar is taught by the UK professors Milena Minkova and Terence Tunberg at Dickinson College in Carlisle, Pennsylvania.

Note: Although this program is intended for teachers, researchers, and college students, high school students who have a strong proficiency in Latin are welcome to attend the program. Please speak with Mrs. Thorpe if you are considering applying for the program.

<https://mcl.as.uky.edu/conventiculum-latinum>

RUSSIAN ORTHODOX MONASTERY OF ST. MARY OF EGYPT

From website: The Monastery of St. Mary of Egypt, an Orthodox Christian monastic community of the Russian Orthodox Church, offers a unique summer opportunity to learn Ancient Greek. Their “mother house” in New York City’s East Village, is known locally as Mercy House. You will have a summer-long introduction to the language of the New Testament at an Orthodox Christian monastery in New York, NY. For more information, please contact Tikhon Pino (93pino@gmail.com).

<http://mercyhousenyc.org/about/>

SUMMER GREEK & LATIN WORKSHOPS AT UC BERKELEY

From website: The Summer Workshops at UC Berkeley, now more than thirty years old, provide a fun, rigorous, and time-tested way for students to master the ancient languages, with ten weeks of intensive study replacing more than two semesters of traditional coursework. The program includes occasional lectures by Berkeley professors as well as the traditional Friday Symposium, an opportunity to relax and socialize.

<http://www.classics.berkeley.edu/courses/workshops>

SUMMER INTENSIVE IMMERSION COURSES IN LATIN AND GREEK AT AVE MARIA

From website: Ave Maria University and the Polis Institute are offering Summer Intensive Immersion Courses in Latin and Greek. These three- to six-week courses are designed to bring students to an active proficiency in Classical Latin or Koine Greek through immersion and dedicated study. Students will learn to think, read, write and speak Latin and Greek. For more information, email summerimmersion@avemaria.edu.

http://classics.avemaria.edu/polis_greek_and_latin/

UNIVERSITY OF CHICAGO LATIN SEQUENCE

The intermediate Latin sequence combines extensive reading of texts with a comprehensive review of Classical grammar and syntax; it prepares students for advanced courses in Latin and for the use of Latin texts in the course of their research. Texts studied are taken from a variety of representative and important authors, which may include Cicero, Seneca, Pliny, and others. The backbone of the review sessions is Keller and Russell, *Learn to Read Latin*, with supplementary exercises in composition. The program meets during both mornings and afternoons for approximately five hours a day. Students are responsible for considerable amounts of class preparation during the evenings, requiring a full-time commitment for the duration of the course. This course equips students to continue with advanced coursework or independent reading in Latin in all its varieties.

<https://summerlanguages.uchicago.edu/page/latin>

Computer Programs

COMPUTER CAMPS HELD AT AMHERST COLLEGE

From website: In 1999, our independent family company set out to reinvent “camp” for the 21st century. Today, we’re the number #1 tech camp on the planet, with summer technology programs for kids and teens held at over 100 campuses nationwide. At Amherst College in Amherst, MA, we offer co-ed iD Tech Camps for ages 7-17. Learn code, game design, app development, web design, film, photography, and more. Kick-start your dream job and gain a competitive edge for college! At Amherst College in Amherst, MA, we offer co-ed iD Tech Camps for ages 7-17. Learn code, game design, app development, web design, film, photography, and more. Kick-start your dream job and gain a competitive edge for college!

<https://www.idtech.com/locations/massachusetts-summer-camps/amherst/id-tech-amherst-college/>

THE GAME, CINEMA, & ANIMATION SUMMER ACADEMY

From website: The Game, Cinema, & Animation Summer Academy is a week-long program held at DePaul University's Loop campus. High school students will receive hands-on instruction using the latest equipment and technology and will be taught by DePaul faculty with real-world experience. Areas of focus will include digital cinema production, 3D computer modeling and animation for games and cinema, and computer game development.

<http://www.cdm.depaul.edu/academics/Pages/CIM/CIM-Summer-Academy.aspx>

GAME DESIGN AT STEVENS

This multidisciplinary program merges art, design, play, storytelling, and computer science. Students will develop original video-games including concept and visual development, gameplay and mechanics, play-testing and critique. Students will start by designing simple card and board games to understand how games work, then quickly progress to the Unity game engine where they will develop and program full 3D games. Students will also be introduced to Javascript, Photoshop, and other software to develop their games. Housed in the Visual Arts & Technology Lab and Studio, this interdisciplinary program will bring students from idea to full game in just two weeks!

<http://www.stevens.edu/sit/admissions/stevens-summer/details#gamedesign>



Digital Image, Video & Film, and Sound Production

ASU SUMMER PERFORMING ARTS + CINEMA EXPERIENCE (ASU SPACE)

From website: Do you want to direct films? Make music videos? Act on camera? Write for TV? ASU SPACE is your chance! Hosted by ASU School of Film, Dance and Theatre, ASU SPACE is a unique, two-week intensive in film and media creation for high school and community college students. ASU SPACE is perfect for aspiring performers, writers, directors, editors, cinematographers and more. With an emphasis on creativity and collaboration, this program is a great way to build your skills and explore the possibility of college study and a career in film, media and the performing arts.

<https://ce.asu.edu/continuing-education/courses/art-architecture-communication-media-society-culture/asu-summer-performing-arts-cinema?spMailingID=48368078&spUserID=NDU0NTM2NTY1NjAS1&spJobID=660252514&spReportId=NjYwMjUyNTE0SO>

AUDIO PRODUCTION BOOT CAMP

From website: Ever wonder how a recording studio works? Got a song you've always wanted to record, but don't know where to start? Audio Production Bootcamp is an intensive one-week hands-on introduction to the world of music and sound production. You'll experience the entire process of recording, from sketching out your musical idea, to sequencing electronic instruments, multi-track recording, all the way to the final mix. You'll be exposed to both the creative and technical aspects of music production and get a chance to record your own voice or instrument using the same top quality gear the pros use. You will leave the session with a fully produced music track in hand, ready to play for your friends or send to that all-important talent scout.

<http://www.clemson.edu/summer/summer-science/coursedescriptions/AudioEngineering.html>

HIGH SCHOOL SUMMER INSTITUTE @ COLUMBIA COLLEGE CHICAGO

From website: This course is an introduction to the visual art of filmmaking. Through the conceptual processes of screenwriting and storyboarding, students will learn to communicate an idea visually. Production logistics will be taught, culminating with an end project, the trailer to the movie students have created in the course. Equipment is provided throughout production week.

<http://www.colum.edu/academics/hssi/>



INNERSPARK ANIMATION

From website: An individual, expressive use of the film and video medium is emphasized in the Film & Video program. Each year, 28 students learn all aspects of creative film and digital-video production, from experimental to pre-cinema history. They view over fifty exemplary films and videos, and attend lectures and presentations by visiting artists working in the field. The program is very learning-intensive and ideal for self-starters who want to challenge both themselves and the boundaries of film and video production while developing their own critical thinking and artistic visions. The program is structured to resemble a collegiate BFA course that students typically experience at elite university and art school film programs.

<https://www.csssa.org/academic-programs/film-video/>

INTERLOCHEN SUMMER PICTURE ARTS PROGRAM

From website: Located in Michigan. Discover creative ways to bring your imagination to the big screen during our six-week digital filmmaking program. From learning how to communicate your vision into a screenplay, to shooting and editing, you'll experience the entire artistic and collaborative process of cinema.

<http://camp.interlochen.org/program/mpa/hs/digital-filmmaking>

SPOT-127

From website: We are an innovative educational outreach and dropout prevention initiative aimed at low-income and at-risk teenagers in the Phoenix area. Our free in-school and after-school programs and summer camps provide mentoring and instruction in multimedia production. Our project-based curriculum offers hands-on training in digital photography, video production, audio production and social media. In addition to technical skills, our students gain developmental and life skills put them on a path to higher education and lifelong success. They also develop media literacy while honing their writing, presentation and critical-thinking skills. Students who complete our after-school program are eligible to apply for 10 full-ride scholarships to a Maricopa Community College. We offer paid reporting internships for participants interested in journalism beginning at age 16. All stories are distributed on our website and on social media, and some are even featured on **KJZZ 91.5 FM**'s local news programming. <http://spot127.org/content/about-spot->

127

SUMMER FILM ACADEMY AT DODGE COLLEGE

From website: Chapman University's Dodge College of Film and Media Arts offers a two-week comprehensive, collaborative and creative high school film program during the summer. For two weeks students are immersed in the world of film through class discussions, film screenings, guest speakers, field trips, and filmmaking in small groups. They live, breathe and eat filmmaking around the clock while being taught by

Chapman faculty who are industry professionals and mentored by current Dodge College grad students and alumni.

<http://www.chapman.edu/dodge/special-programs/summer-film-academy/>

SUMMER FILM INTENSIVE

From website: Now in our eighth year together, Sarah Lawrence College and the International Film Institute of New York are happy to offer a unique opportunity to learn the art of filmmaking in an in-depth, supportive, and intimate program. Students will gain hands-on experience and instruction in all aspects of filmmaking, focusing on four core elements: writing for the screen, directing, production, and post-production.

<https://www.sarahlawrence.edu/ce/summer/>



English Literature, Creative Writing, and Journalism

ASIAN AMERICAN JOURNALIST ASSOCIATION—J CAMP

From website: JCamp is a six-day intensive journalism training for high school students. Students learn from professional journalists and get hands-on training in writing, photography, television broadcasting, online media, and reporting. Sessions and workshops are led by experienced journalists from top media companies. JCamp is an all-expenses-paid program with travel, meals and lodging covered by AAJA's partners.

<http://www.aaja.org/jcamp2015/>

CARLETON COLLEGE SUMMER WRITING PROGRAM

From website: The Summer Writing Program emphasizes a writing process approach, teaching you how to compose academic papers similar to those you will write in college. The program is designed for college-bound students with strong reading and writing abilities.

<http://apps.carleton.edu/summer/writing/>

DUKE UNIVERSITY YOUNG WRITERS CAMP

From website: The attendance requirements for Young Writers' participants are an enthusiasm for writing and a desire to work to develop writing skills. The curriculum is designed so that students who have average or above-average reading and writing abilities will benefit most from attending the program. Since the camp is academically rigorous, we encourage attendance only for students who are academically motivated and have the ability to manage their time to complete assignments.

<http://www.learnmore.duke.edu/youth/youngwriter/>

EMERGING WRITERS INSTITUTE @ UC BERKELEY

From website: Emerging Writers Institute creative writing camp is a two-week summer writing program for teens. Rising 10th-12th graders experience a unique curriculum designed to develop and support students' imaginative writing across literary genres. This creative writing summer program encourages students to challenge themselves technically and artistically through guided daily writing workshops, one-on-one instructor evaluations, group editing sessions, and creative presentations of their work. Moreover, the participants in the program will be uniquely positioned to profit from the literary culture of the San Francisco Bay Area. By the

program's conclusion, students will produce and perfect quality pieces suitable for publication in their own literary magazine and professional teen publications.

<https://www.emergingwritersinstitute.com/camp/24/emerging-writers-institute.html>

EMERSON COLLEGE JOURNALISM INSTITUTE

From website: If you're a high school student curious about the news, storytelling, politics, or social issues, and communication and the latest technology, the Summer Journalism Institute is the perfect three-week summer academic choice for you. In the Summer Journalism Institute, news-inspired students will develop basic journalistic techniques and approaches to produce journalism in a variety of formats.

<http://www.emerson.edu/academics/pre-college/pre-college-institutes>

INDIANA UNIVERSITY HIGH SCHOOL JOURNALISM INSTITUTE

From website: The High School Journalism Institute serves as a continuing education outreach program for both in-state and out-of-state secondary school students and teachers. HSJI provides a series of intensive journalistic non-credit five-day workshops each summer intended primarily for staff members of secondary school media outlets as well as for high school students wishing to explore journalism as an academic or career interest. Several five-day summer journalism workshops, carrying graduate credit, for high school teachers occur.

<http://journalism.indiana.edu/programs/hsji/>

IOWA YOUNG WRITERS

From website: At the Iowa Young Writers' Studio, you will choose a single Core Course of study—Poetry, Fiction, or Creative Writing (a survey that includes poetry, fiction, and creative nonfiction)—as your focus for the two weeks of the program. After you're accepted to the program, you'll have the opportunity to look over several course descriptions and pick one depending on what, and with whom, you would like to study (poetry, fiction, creative writing)

<http://iowayoungwritersstudio.org/program/>

ITHACA WRITERS INSTITUTE

From website: Begin your writing odyssey in Ithaca. Unlike most other young writers' conferences, which focus primarily on creative writing, the Ithaca Writers Institute hosts a wide range of both creative and professional writing courses, from poetry to publishing, building on Ithaca College's reputation for blending praxis with the arts. Taught by the distinguished faculty of the College's Department of Writing, with assistance from the department's most talented undergraduates, the curriculum mirrors the department's own unique curriculum, giving aspiring young writers an immersive conference experience in an authentic college atmosphere. Students

spend mornings in two-hour workshops, focusing on the genre of their choice, and spend afternoons in lectures and craft classes that allow them to experiment across the genres. In the evenings, they participate in a student reading series and interact directly with visiting writers and publishing professionals who have expert insight into the craft and business of writing.

<http://www.ithaca.edu/writers-institute/>

YOUNG WRITERS SUMMER PROGRAM AT KENYON COLLEGE

From website: Young Writers is an intensive two-week workshop for intellectually curious, motivated high-school students who value writing. Our goal is to help students develop their creative and critical abilities with language—to become better, more productive writers and more insightful thinkers. For more than nineteen years, Young Writers has provided a lively, supportive environment where students can stretch their talents, discover new strengths, and challenge themselves in the company of peers who share their interests.

<http://www.kenyonreview.org/workshops/young-writers/>

LAKE FOREST COLLEGE: WRITING AND THINKING WORKSHOP

From website: Supportive faculty work with students in small groups to help them develop confidence in their voices as writers. Participants learn strategies to generate fresh and compelling ideas, the kind of well-reasoned ideas first-rate colleges and universities expect from their students. Trips to Chicago's museums and cultural events offer additional inspiration.

<http://www.lakeforest.edu/academics/summer/wtw/>

MEDILL-NORTHWESTERN JOURNALISM INSTITUTE

From website: This in-depth, five-week program is designed for students who have just finished their junior year of high school and wish to become better writers and editors for print, online and broadcast. Enrollment is limited to 84 and students typically come from as many as 25 states and abroad. Teachers are top-notch practitioners and distinguished Northwestern faculty.

<http://sps.northwestern.edu/program-areas/summer/high-school-programs/>

NYS SUMMER YOUNG WRITERS INSTITUTE

From website: The New York State Writers Institute in conjunction with the Office of the Dean of Special Programs at Skidmore College is pleased to announce the 17th annual creative writing workshop for high school students. The New York State Summer Young Writers Institute (SYWI) will be held at Skidmore College, Saratoga Springs, New York. Participants in the Summer Young Writers Institute receive instruction in poetry, fiction, and dramatic writing (screenwriting, playwriting, and dramatic monologue) and engage in the critical evaluation of each other's work. By bringing top high school student writers together to work

extensively with professional writers, the SYWI provides young artists with recognition, respect, opportunities for artistic development, and peer support.

<https://www.skidmore.edu/youngwriters/>

SUMMER SEMINAR FOR WRITERS

From website: Founded in 1993 by Thomas Lux and Jane Cooper, the Summer Seminar is a chance for writers to experience the Sarah Lawrence pedagogy, to work with a faculty of acclaimed writers and passionate teachers, and to spend a week in a stimulating atmosphere, where writing—and thinking about writing—is at the core.

<https://www.sarahlawrence.edu/ce/summer/>

SUMMER WRITER’S WORKSHOP AT SARAH LAWRENCE

From website: The Sarah Lawrence College Summer Writer's Workshop for High School Students is a unique collaboration between writers and other artists. Directed by distinguished faculty members, the program gives high school students the experience of writing in a non-competitive, non-judgmental environment that values the risks and adventure of the creative process. Each day, participants attend writing and theatre workshops led by prose writers, poets, and theatre artists. Included in the week are mini-workshops taught by program faculty and guest artists. Rooted in the Sarah Lawrence College tradition of one-to-one interaction, the program offers students the opportunity to meet individually with workshop leaders. Classes are limited to 15 students, with three faculty per workshop. In addition to workshops, the program includes faculty and student readings, and a celebration of student work on the last day.

<http://www.slc.edu/ce/summer/writers-workshop/>

WRITER’S VILLAGE

From website: This summer, immerse yourself in the craft of creative writing. Led by members and guests of Sarah Lawrence’s celebrated writing faculty, students will be immersed in the craft of writing. They will participate in a fiction workshop and a poetry workshop, and enjoy readings, craft talks, and free writing periods that are designed to supplement learning.

<https://www.sarahlawrence.edu/ce/summer/>

WRITER'S WORKSHOP FOR HIGH SCHOOL STUDENTS

From website: The Sarah Lawrence College Writer's Workshop for High School Students offers young writers an opportunity to explore the creative process with skilled writers and artists, and to experience the joys of writing in a supportive environment. No previous creative writing experience is necessary—only a commitment

to learning, a fascination with words, and a desire to be part of a community that values art and experimentation.

<https://www.sarahlawrence.edu/ce/summer/>

Fine Arts: Drama, Art, Music, and Poetry

AMERICAN ACADEMY OF DRAMATIC ARTS SUMMER PROGRAM

Designed for teenagers who would like to begin studying acting in an environment of professional study and training, this six-week course includes classes in acting, vocal production, voice and speech, and movement. Elective classes are also offered in areas like Fencing, Mime, Make-up and Musical Theatre. At the end of the program, students appear in a presentation of scenes.

http://www.aada.org/academics/summer_program.html

AMERICAN SHAKESPEARE CENTER

From website: For actors who want to deepen their interest in theatre history! With three weeks of engaged-working in the world's only re-creation of Shakespeare's indoor theatre, the Blackfriars' Playhouse, actors discover how original practices—universal lighting, audience contact, simple sets, live music, taking on multiple roles and cross-gender casting—can be brought to life for a 21st century audience.

<http://www.americanshakespearecenter.com/v.php?pg=77>

ASU SUMMER PERFORMING ARTS + CINEMA EXPERIENCE (ASU SPACE)

See Film and Sound Production

ASU INTRODUCTION TO DANCE ON CAMPUS

From website: This program is geared towards high school students who are considering studying dance in college. Students will take classes that are offered in ASU's dance program while also learning about habits that contribute to a successful college experience. Classes will be taught by ASU dance faculty and teaching assistants on the ASU Tempe Campus. It is a great way to learn about the benefits and realities of studying dance in college.

<https://ce.asu.edu/continuing-education/courses/art-architecture/introduction-dance-campus?spMailingID=48368078&spUserID=NDU0NTM2NTY1NjAS1&spJobID=660252514&spReportId=NjYwMjUyNTE0S0>

ASU SCHOOL OF ART SUMMER SESSIONS

From website: ASU School of Art in the Herberger Institute for Design and the Arts offers summer sessions focused on four of our seven studio disciplines of fine art: ceramics, fibers, intermedia, painting/drawing, printmaking, photography or sculpture. The summer sessions are designed to give you an art immersion experience. You will work with faculty on creative projects that represent the variety of courses offered from

the School of Art BFA program. The summer sessions will conclude with an exhibition of student work in Gallery 100 on ASU's Tempe campus.

<http://art.asu.edu/community/summer.php?spMailingID=48368078&spUserID=NDU0NTM2NTY1NjAS1&spJobID=660252514&spReportId=NjYwMjUyNTE0S0>

BERKLEE FIVE-WEEK SUMMER PERFORMANCE PROGRAM

From website: The Five-Week program is a pre-college course ideally suited to high school students but is open to all eligible applicants. The program takes place on the Berklee campus, located in Boston's business, retail, and arts district. Join musicians from more than 70 countries for the summer of a lifetime. The focus is on you and what you want to say with your music in an environment that is pure performance. Immerse yourself in your chosen style and study with world-class faculty and visiting artists in state-of-the-art facilities. You'll play in ensembles, develop improvisational and reading skills, and improve your technique in weekly private lessons.

<https://www.berklee.edu/summer/programs/five-week>

BERKLEE TWELVE-WEEK SUMMER PERFORMANCE PROGRAM

From website: Join other serious music students from all over the world and get a comprehensive taste of Berklee with this full-credit Twelve-Week Summer Program. Without even going through our audition and interview process, you'll complete the first semester of Berklee's regular college-level core curriculum and earn a full semester of college credits. No audition required. You will need a minimum of two years of formal music training or experience on your principal instrument or voice, and good working knowledge/familiarity with the written fundamentals of music theory.

<https://www.berklee.edu/summer/programs/twelve-week>

BIMA AT BRANDEIS UNIVERSITY

From website: At BIMA you'll be part of a vibrant community brimming with artistic discovery and Jewish experiences. Receive intensive one-on-one instruction in your chosen major, collaborate and create in small groups, and explore the community around you with new friends—all while learning more about who you are as an artist and as an individual. Your Judaism adds color and depth to the whole picture. Receive intensive one-on-one instruction in your chosen major, collaborate and create in small groups, and explore the community around you with new friends—all while learning more about who you are as an artist and as an individual. Your Judaism adds color and depth to the whole picture.

<http://www.brandeis.edu/highschool/bima/index.html>

BOSTON UNIVERSITY SUMMER THEATRE INSTITUTE

From website: The Boston University Summer Theatre Institute is a five-week conservatory experience for highly motivated high school theatre artists. Designed to mirror the freshman BFA experience within the College of Fine Arts School of Theatre at Boston University, the Institute allows all participants the opportunity to test their interests and abilities in a professional training environment. Students earn 4.0 college credits for their coursework in acting, design, voice, singing, and stage combat, as well as master classes, experimental theatre laboratories, and the creation of an original piece of theatre with members of their ensemble. Throughout the five-week program, students engage with Boston University, the professional artistic community in Boston, and the city's historic and cultural offerings. Students graduate from BUSTI having honed their technique, depth of intellectual and artistic questioning, playfulness in collaboration, and ability to tell a dynamic story through the theatrical medium.

<http://www.bu.edu/cfa/busti/>

BROWN THEATREBRIDGE

From website: TheatreBridge serves as a connecting link between high school and college theatre and encourages a commitment to a life of creative engagement. The highly selective program provides promising young actors an opportunity to stretch their imaginations and skills and encourages students to achieve their highest potential.

<http://www.brown.edu/academics/pre-college/theatrebridge/>

CALIFORNIA COLLEGE OF THE ARTS PRE-COLLEGE EXPERIENCE

From website: CCA's Pre-College Program is an exciting opportunity for high school students to study art, architecture, design, or creative writing in an art-school setting. Our program provides a perfect platform to expand your knowledge, grow as an individual, develop strong portfolio pieces, and get a taste of college life. As a Pre-College student you will find inspiration in this unique environment.

<https://www.cca.edu/academics/precollege>

CALIFORNIA STATE SUMMER SCHOOL FOR THE ARTS

From website: The California State Summer School for the Arts (CSSSA) is a rigorous pre-professional training program in the visual and performing arts, creative writing, animation, and film for talented artists of high school age. CSSSA provides a supportive environment in which students hone acquired skills and explore new techniques and ideas for an intense and exciting learning experience. The School was created by the California Legislature, held its first session in 1987 and will conduct its 28th session in 2014. Its purpose is to provide a training ground for future artists who wish to pursue careers in the arts and entertainment industries in California. The California State Summer School for the Arts is a state agency funded through a unique public-private partnership. Students apply for the opportunity to study in one of the School's seven departments. They may receive 3 units of California State University elective credit for successful participation.

<https://www.csssa.org/academic-programs/>

CARNEGIE MELLON

From website: The summer Pre-College Drama Program gives students the chance to participate in a professional training program with three options: acting, music theatre and design/technical production. The program focuses on the exploration of a conservatory training program with emphasis on creativity, craft and discipline.

<http://admission.enrollment.cmu.edu/pages/pre-college-drama>

CENTER FOR CREATIVE YOUTH @ WESLYAN UNIVERSITY

From website: CCY enrolls approximately 150 young artists from Connecticut, across the U.S., and outside the country. These students reflect a diverse ethnic, economic, and cultural society. This provides an environment for students to develop a better understanding of each other, as well as greater knowledge of and appreciation for the arts. During downtime, students have a wonderful opportunity to explore professional venues of their art form and attend workshops. In each of the art disciplines, students gain practical experience in an advanced, progressive curriculum emphasizing critical thinking, interdisciplinary and multicultural learning, leadership skills, and historical context. A staff of professional Artist/Teachers and Residential Advisors mentor students in their studies, as well as in the social aspects of the program. Students leave CCY with a better perspective on career and higher education choices.

<http://www.crec.org/ccy/>

COLUMBIA THEATRICAL COLLABORATION: THE ACTOR, THE DIRECTOR, AND THE PLAYWRIGHT

From website: Designed for students with experience in drama who are interested in developing original theatrical productions, the course emphasizes the working relationship between actor, director, and playwright, and the unique dynamic that exists between them when working on untried material... Students who are interested in devoting six weeks to Theatrical Collaboration may apply to both Session I and II. Students taking the course in both sessions extend their experience in the creative processes involved in producing original works for the stage.

<http://ce.columbia.edu/high-school/nyc/junior-senior-courses/theatrical-collaboration-the-actor-the-director-and-the-playwright>

EMERSON COLLEGE ARTS AND COMMUNICATION PRE-COLLEGE STUDIO PROGRAMS

From website: If you're a high school student with a passion for acting, creative writing, filmmaking, musical theatre, or stage design, and you're looking for a summer academic program where you can pursue your creative interests and develop your talents, then the five-week Emerson College Arts and Communication Pre-College Studio Programs are just right for you. In the Pre-College Studio Programs, you'll focus on acquiring skills in one of five academic areas and learn by doing. An accomplished team of instructors will help you prepare

audition material or portfolio pieces for college applications. Programs include the following: Acting, Creative Writers' Workshop, Filmmakers' Studio, Musical Theatre, and Stage Design.

<http://www.emerson.edu/academics/pre-college/pre-college-studio-programs>

EXPLORING MUSICAL THEATRE AT SARAH LAWRENCE (NEW YORK)

From website: This is an exciting and rigorous program with a special focus on musical theatre, including acting technique, vocal technique, vocal coaching, choreography, and creating and developing original work. If you love musical theatre, this three-week intensive will develop and strengthen the skills needed to propel your creative work to the next level.

<https://www.sarahlawrence.edu/ce/summer/>

FIDM FASHION INSTITUTE OF DESIGN AND MERCHANDISING

From website: Learn what it's like to launch your own business or have a great career in Marketing, Social Media, Fashion Buying, Merchandising, Fashion Styling, or Fashion Design at FIDM's 3 Days of Fashion for high school students! In 3 creative and inspiration-filled days, you will take workshops like "Draping the Dress," where you will create a 3-dimensional design on a fitting form; you will take "Concept to Consumer," which focuses on design and merchandising; and you will take "Creating a Promotional Campaign," where you will work on a photo shoot and a special event.

<http://fidm.edu/en/News+and+Events/3+Days+of+Fashion/>

HIGH SCHOOL DRAMA INSTITUTE AT CATHOLIC UNIVERSITY OF AMERICA

From website: The CUA High School Drama Institute is a two-week residential drama program for students who wish to pursue a serious summer drama training experience. If you want to strengthen your acting skills, work hard with like-minded students, and live on a university campus, this summer experience is for you.

<http://summer.cua.edu/precollege/>



INDIANA UNIVERSITY SUMMER MUSIC CLINIC

From website: Indiana University Summer Music Clinic offers the high school student a musically challenging experience on the beautiful wooded IU campus. Students live in university housing with final concerts presented in the Musical Arts Center. All members of clinic staff are experienced and successful music instructors in their own right. A number of recital and program opportunities are presented throughout the week. Because this is primarily a band and orchestra camp, every student must participate on a wind, orchestral string, or percussion instrument.

<http://music.indiana.edu/precollege/summer/music-clinic/>

ITHACA COLLEGE

From website: Acting I [gives an] opportunity to explore some fundamental acting concepts and techniques through exercises, improvisations, presentations, readings and discussions. It is a way of understanding what we do in life and making it work on stage. Acting is a life-enhancing process that involves commitment and focus with a willingness to explore and communicate. Both newcomers to acting and those who have experience will have a chance to challenge themselves and enjoy the work. Classes begin with a vocal and physical warm-up preparing everyone for the day's work followed by theatre games, projects and script work (monologues and scenes). We create an ensemble where students feel free to work together and give feedback. Over the course of the semester you will learn improvisation and audition techniques and work on a monologue and a scene. Some techniques explored are Meisner, Stanislavski, sensory work, mime and Rasa Boxes.

<http://www.ithaca.edu/summercollege/threeweek/acting/>

JULLIARD SUMMER DANCE INTENSIVE

From website: The Summer Dance Intensive is a three-week program in classical ballet and modern dance for advanced students who are dedicated, disciplined, and dance with a generosity of spirit. The program is limited to dancers who are currently in high school/secondary school and who will not graduate before the program begins. Generally, this means that dancers in the program are aged 15-17 and have completed grade 9, 10, or 11. The program is designed to give young dancers a taste of what a Juilliard dance student's life is all about: refining technique and performance, broadening understanding of various dance styles, experiencing New York City, and making friends from all over the world. The program takes place at The Juilliard School in New York City, and optional on-campus housing is available.

<http://www.juilliard.edu/youth-adult-programs/summer-programs/summer-dance-intensive>

NYC SUMMER THEATER INSTITUTE AT THE KING'S COLLEGE (NY)

From website: Ten days of seeing shows, learning about theater, and seeing the sites of NYC. What could be better? The Institute is usually held in mid-May.

<https://www.tkc.edu/summer-kings>

NYU TISCH SUMMER ARTS PROGRAM

From website: During the summer the Tisch School of the Arts offers high school students the chance to participate in intensive training in New York City. Through these programs students gain an enriching and enlightening experience, and a better understanding of the nature of a professional training program. In each of our four-week residential programs, students are enrolled in rigorous and highly structured college-level courses taught by our full-time faculty. Upon successful completion of the summer program, students earn six college credits, all fully accredited New York University courses.

<http://specialprograms.tisch.nyu.edu/page/hsStudents.html>

THE REYNOLDS YOUNG WRITERS WORKSHOP

The Reynolds Young Writers Workshop at Denison University is an inspiring place for high school students who love to write. This 8-day residential program brings together young writers who are passionate about artistic expression and eager to stretch in new directions. In small workshops in poetry, fiction, and nonfiction, beginning poets and writers get the chance to develop their talents and refine their skills. Daily cross writing classes give exposure to all the genres, while group sessions with visiting writers and readings enrich the experience. There's also time to write individually and to meet with faculty one on one. Participants also contribute poems and short prose pieces to the Workshop Anthology, ready to take home at the week's end. The Reynolds Young Writers Workshop offers an energizing writing experience for up to 36 rising high school juniors, seniors, and college-bound students from across the country. Financial assistance is available on an as-needed basis.

<https://reynolds.denison.edu/about/>

RISD SUMMER PRE-COLLEGE PROGRAM (RHODE ISLAND SCHOOL OF DESIGN)

From website: RISD Pre-College is about strengthening your ability to observe, conceptualize, analyze and create. That's why the carefully balanced schedule and all-day studio classes offer the chance for you to experiment and creatively problem solve. RISD Pre-College is about strengthening your ability to observe, conceptualize, analyze and create. That's why the carefully balanced schedule and all-day studio classes offer the chance for you to experiment and creatively problem solve.

<http://precollege.risd.edu/>

RUTGERS SUMMER ACTING CONSERVATORY FOR HIGH SCHOOL STUDENTS

From website: Unparalleled conservatory training for young people serious about acting! RSAC is a highly selective, four-week conservatory acting program that accepts only 38 high school students from across the country. All conservatory faculty are working theater professionals dedicated to providing students with a

challenging, inspiring learning environment that allows each student to develop as a young theater artist. Musical Theater track available!

<http://www.masongross.rutgers.edu/content/rutgers-summer-acting-conservatory>

SAVANNAH COLLEGE OF ARTS AND DESIGN (SCAD) SUMMER SEMINARS

From website: SCAD Summer Seminars offer workshops for high school students who have completed their freshman, sophomore or junior years. Students gain valuable educational experience while developing their creative vision through exciting art and design assignments and projects. Students attend two workshops and have access to the university's extensive facilities, resources and libraries. Workshops may include demonstrations, lectures, studio work and local field trips and are taught by SCAD professors, alumni or selected graduate students. To provide maximum individual attention and collaborative interaction between students and instructors, class size is small, with generally 15 or fewer students in each workshop. Organized social and cultural activities each day create an authentic experience of life as a SCAD student in the city. A closing exhibition of student work is held at the end of each session.

<http://www.scad.edu/academics/pre-college-summer-programs/scad-summer-seminars>

THE SUMMER ART INSTITUTE AT UCLA

From website: The Summer Art Institute is designed for talented and highly motivated high school students. Each two-week session carries three units of UCLA college credit, and is structured around a combination of daily, focused studio work, artist lectures, field trips, and a final exhibition. Students may enroll in one, or both, two-week sessions, and choose from Drawing, Painting, Photography, or Sculpture.

<http://www.summer.ucla.edu/institutes/Art>

SUMMER INSTITUTE: ACTIVATING LEARNING THROUGH THE ARTS

From website: The Summer Institute is a research-based comprehensive pedagogical exploration and immersion training experience in the use of drama-based instruction across the curriculum. This intensive arts integration training program is co-facilitated by faculty and graduate students from the Department of Theatre and Dance and the College of Education. The Institute provides an opportunity for UT students and working professionals from across the country to gather and explore the power of learning in and through the arts.

<http://www.utexas.edu/finearts/tad/graduate/mfa-drama-theatre-youth-communities/drama-schools/summer-institute>

THE SUMMER OF ART AT OTIS COLLEGE

From website: This intensive, four-week, pre-college program is for individuals 15 and older who wish to study at one of the top art and design colleges in the country. Serious young artists seeking to strengthen and enhance their art and design skills, as well as students with limited art training, are invited to participate. On the last day of the program there is a final exhibition of student work. You and your instructors will select your best work

for the exhibition. The work is displayed throughout the campus, giving you the experience of being part of a gallery show with your peers, while sharing your artwork with family and friends.

<http://www.otis.edu/summer-art>

UNIVERSITY OF MINNESOTA: STAGE ELEMENTS SUMMER THEATRE INSTITUTE

From website: Immerse yourself in an extraordinary, 11-day theatre intensive designed for current high school freshmen, sophomores and juniors, led by distinguished University of Minnesota faculty who are professional artists from organizations including the Guthrie Theater, Children's Theatre Company, Open Eye Figure Theatre and Penumbra Theatre. The STAGE ELEMENTS Summer Theatre Institute is an opportunity for young artists to sample the rigorous BA Performance and BFA Actor Training programs offered in the University of Minnesota's West Bank Arts Quarter.

<http://theatre.umn.edu/elements/FAQ.php>

VASSAR POWERHOUSE

From website: Powerhouse Theater apprentices are challenged to look at the world of theater in new and meaningful ways. They explore the boundaries of performance by living, breathing, and creating theater with peers and professionals alike - to come away with an experience that will inform the rest of their lives. Each season around 45-50 students from across the country and around the world participate in the training program and form the Powerhouse Apprentice Company. These young artists – current students, recent graduates, and future theater professionals – are provided with a distinctive opportunity to create their own new work as well as work on the development of theater and musical productions headed for Broadway and top-ranked theaters nation-wide. This educational experience is not replicated anywhere else in the country.

<http://powerhouse.vassar.edu/>

YALE THEATRE SUMMER

From website: The Yale Summer Conservatory for Actors is an intensive introduction to the basic techniques of acting. Based on the principles of Stanislavski, this five-week program is a distillation of the acting curriculum at the Yale School of Drama. The Conservatory emphasizes both the personal and professional growth of its participants. More than just acting or scene study, the Conservatory offers students an entire program comprised of a series of sections, each focused on a fundamental element of acting.

<http://summer.yale.edu/find-your-program/drama>

Foreign Languages

CENTER FOR TALENTED YOUTH PROGRAM IN HONG KONG

From website: The University of Hong Kong is the oldest institution of higher education on the island of Hong Kong. Founded in 1911, HKU has an impressive history of excellence in education and is an internationally recognized research university. The university itself faces picturesque Victoria Harbor and the main campus consists of buildings that represent historical British Colonial architecture. In an inspiring environment, students are able to use modernized educational facilities. HKU is located in the Mid-Levels area in Hong Kong and is connected to surrounding areas by a comprehensive public transport network; commuting to HKU is both safe and convenient. Classes and activities for commuting students will meet from 9:00 AM to 9:00 PM, Monday to Friday during the program, and residential students will participate in weekend activities as well.

For more information about CTY and eligibility requirements, please visit <http://cty.jhu.edu/>

CONCORDIA LANGUAGE VILLAGES

From website: Deep in the North Woods of Minnesota, we create a place that is both culturally authentic and uniquely our own. In the Language Villages, everything from the music played to the dishes used in the dining hall reflect the culture each was designed to represent. Immerse yourself in the world of a native speaker, where you can truly learn to live a language, not just speak it. Coming to the Language Villages for a summer language immersion program is just like entering a new country. Language programs include: Chinese, Japanese, Spanish, Russian, French, German, Arabic, Hebrew, Korean, Danish, Finnish, Italian, Norwegian, Swedish, and Portuguese.

<http://www.concordialanguagevillages.org/youth-languages>

LANGUAGE SCHOOLS AT MIDDLEBURY ACADEMY

From website: Every summer, students and teachers, scholars and artists, entrepreneurs and political leaders from around the world gather at the Middlebury Language Schools. The catalyst for this miracle is the Language Pledge, a promise made by students, faculty, and staff to communicate solely in their language of choice for the duration of their time in the program. Within the classroom, the Language Pledge supports the creation of a solid foundation in language—reading, writing, listening, and speaking. Outside the classroom, the Pledge fosters meaningful engagement and fluency acquisition, as students participate in a vast range of curricular activities, all of which happen in language. Language programs include: Chinese, Japanese, Spanish, Russian, French, German, Arabic, Hebrew, Korean, and Portuguese.

<http://www.middlebury.edu/languages>

MIDDLEBURY AT MILLS

From website: Middlebury at Mills brings our established Language Schools programs to the historic Mills College campus in Oakland, California. This provides a unique opportunity for our West Coast students to experience Language Schools closer to home, and for East Coast students to explore the liveliness and cultural diversity of the Bay Area. Designed to provide the accelerated language acquisition students expect from the Language Schools, Middlebury at Mills offers instruction in Arabic, Italian, and Korean. All students admitted to these Schools will study at Mills. Application and financial aid processes are identical to those for the Middlebury campus.

<http://www.middlebury.edu/ls/experience/mills>

PENN CHINESE ACADEMY

From website: The University of Pennsylvania Center for East Asian Studies is pleased to announce that it will offer the Phila-Nipponica Project, the 14th year in a series devoted to preparing educators in schools in the Philadelphia region to convey knowledge and understanding of Japan to their students and colleagues. In 2015, the Center for East Asian Studies will offer a "graduate" program with a focus on: Teaching about Japan's Religious Culture. Teachers who have previously participated in Phila-Nipponica (or have equivalent experience through the study or travel of Japan), are invited to apply.

<http://ccat.sas.upenn.edu/ceas/>

PENN STATE LANGUAGE INSTITUTE

From website: The Language Institute at Penn State offers summer language programs designed for persons seeking to develop proficiency in a foreign language, including English as a second language. These programs consist of sequences of formal language courses offered for full academic credit. The Institute's programs are of interest to Penn State undergraduate and graduate students in a range of academic and professional programs, including the liberal arts, the sciences, engineering, business administration, agriculture, communications, health and human development, and many others. The Institute welcomes students from other academic institutions, as well as military personnel, professionals, and anyone else looking to build competency in a foreign language. High school students with strong academic aspirations may enroll in the Institute as long as they are at least 15 years old.

<http://www.outreach.psu.edu/programs/language-institute/index.html>

RASSIAS FOUNDATION LANGUAGE PROGRAM @ DARTMOUTH

From website: The Rassias Method is a unique approach that speeds language learning, increases language retention and has you speaking and understanding in "Ten days that make a difference." Originally developed for Peace Corps training, it has been adapted by language teachers in North America, Europe, Africa and Asia.

<http://rassias.dartmouth.edu/>

SUMMER INTENSIVE LANGUAGE STUDIES @ BELOIT

From website: If you are serious about learning a language, consider one of the nation's finest summer intensive language programs - the **Center for Language Studies** at Beloit College. Our program aims to expand your understanding of a fascinating world culture as you move toward mastering the language it envelops: language and culture go hand in hand. If you are serious about learning a language, consider one of the nation's finest summer intensive language programs - the **Center for Language Studies** at Beloit College. Our program aims to expand your understanding of a fascinating world culture as you move toward mastering the language it envelops: language and culture go hand in hand. Success in the program better positions you to assume confident, active citizenship in a thoroughly interdependent world. It prepares you to engage a part of that world on its own terms, in its own language, through its own cultural sensitivities. Success in the program better positions you to assume confident, active citizenship in a thoroughly interdependent world. It prepares you to engage a part of that world on its own terms, in its own language, through its own cultural sensitivities.

<https://www.beloit.edu/cls/program/>

UNIVERSITY OF VIRGINIA SUMMER LANGUAGE INSTITUTE

From website: The Summer Language Institute offers eight-week courses in Arabic, Chinese, French, German, Hebrew, Italian, Latin, Russian, Spanish, and Tibetan. Students attend classes five days a week, seven and a half hours a day. Listening, speaking, reading, and writing skills are developed in a student-centered environment.

<http://www.virginia.edu/summer/SLI/>

Gender-Focused Opportunities

ALL GIRLS/ALL MATH

From website: ALL GIRLS/ALL MATH is offered at the University of Nebraska-Lincoln. The Summer Mathematics Camp for High School Girls provides a stimulating and supportive environment for girls to develop their mathematical ability and interest. The ALL GIRLS/ALL MATH summer camp has been offered since 1997. 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.

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

THE CURIE ACADEMY @ CORNELL UNIVERSITY

From website: The CURIE Academy is a one-week summer residential program for high school girls who excel in math and science. The focus is on juniors and seniors who may not have had prior opportunities to explore engineering, but want to learn more about the many opportunities in engineering in an interactive atmosphere.

http://www.engineering.cornell.edu/diversity/summer/high_school/curie/index.cfm

DOUGLASS PROJECT FOR RUTGERS WOMEN IN MATH, SCIENCE, AND ENGINEERING

From website: Established in 1986, the Douglass Project for Rutgers Women in Math, Science & Engineering is an award-winning program that provides support and encouragement for undergraduate women pursuing degrees and careers in mathematics, science, engineering, and technology, with the ultimate goal of increasing the participation of Rutgers women in STEM. The Douglass Project provides women in the STEM fields with personal, professional, and leadership development opportunities and provides support systems that encourage women to recognize their abilities, attain their educational goals, and ultimately pursue careers in the STEM fields.

<https://douglass.rutgers.edu/douglass-project-rutgers-women-math-science-and-engineering>

EXPLORING ENGINEERING AT THE UNIV OF MD (E2@UMD)

From website: Exploring Engineering at the University of Maryland (E2@UMD) is a one-week summer program for high school women (rising juniors and seniors) who are considering engineering as a possible

major and career. You will live on campus for one week and explore the world of engineering through hands-on activities, laboratory experiments, informative workshops, team challenges and seminars with professional engineers.

<http://www.wie.umd.edu/k12/e2atumd>

GIRL'S LEADERSHIP WORLDWIDE

From website: Each year, the Eleanor Roosevelt Center holds two exciting and transformational nine-day summer camp programs for teen girls who desire to make a difference in their own lives, their communities and the world. With Eleanor Roosevelt's life and legacy as a model, girls diverse in culture and geography bring their passion and leadership potential to life. Girls experience interactive workshops, field trips to New York City, the United Nations and other significant sites, while building supportive relationships with inspiring female mentors and peers. Girls who will be entering the 10th or 11th grades are eligible.

<http://glw2015.ervk.org/glw/about-glw/>

SMITH SUMMER SCIENCE AND ENGINEERING PROGRAM (SSEP)

From website: 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. Established in 1990, the SSEP annually serves approximately 100 girls. Since its inception, nearly 1,800 high school students have participated. More than half of these students have been awarded need-based financial aid. After the program, participants return to high school better prepared to tackle tough science courses and better informed about what to expect in college.

http://www.smith.edu/summer/programs_ssep.php

WIE LEAD ACADEMIES AT THE UNIVERSITY OF MARYLAND

From website: The Women in Engineering Leadership Enhancement, Application and Design Academies have been created to provide high school students with the opportunity to spend a day learning and applying principles related to a particular engineering discipline offered at the University of Maryland.

<http://www.wie.umd.edu/k12/lead-academies>

WOMEN IN ENGINEERING AT AUBURN UNIVERSITY

From website: The camp will focus on issues important to women in the field of engineering. Sessions will be led by women engineering organizations, faculty members, alumni, and current Auburn engineering students.

<http://www.eng.auburn.edu/outreach/k-12/eng-summer-camp.html>

WOMEN IN ENGINEERING PROGRAM @ MICHIGAN TECH

From website: This program is a weeklong investigation of engineering careers in mechanical, computer, environmental, electrical, chemical, biomedical, civil, geological, materials, and related disciplines. Explore engineering by constructing a building strong enough to withstand an earthquake, creating your own message encryptor (share secrets only your friends can read), and more. Get the inside scoop from female role models working in engineering fields. Work in teams to solve engineering problems and complete engineering projects. Learn about the college application process and tips for succeeding in university engineering programs. Enjoy team competitions, a variety show, and tons of outdoor activities in Michigan's beautiful Keweenaw Peninsula. Upon request, arrangements can be made for you to speak with faculty from disciplines or areas in which you have special interests, as well as admissions and financial aid staff.

<http://www.syp.mtu.edu/>

WOMEN IN ENGINEERING SUMMER CAMP @ UNIVERSITY OF DAYTON

From website: The Women in Engineering Summer Camp at the University of Dayton is a Sunday-through-Friday experience that gives you the chance to dabble in engineering through hands-on, learn-by-doing activities. Guided by University professors, you'll conduct experiments and use your creativity to make cool stuff in our classrooms and laboratories. You'll meet women engineers and visit a job site.

https://www.udayton.edu/engineering/k-12-programs/women_in_engineering_summer_camp/index.php

WOMEN'S TECHNOLOGY PROGRAM @ MIT

From website: The MIT Women's Technology Program (WTP) is a rigorous four-week summer academic and residential experience where female high school students explore engineering through hands-on classes, labs, and team-based projects in the summer after 11th grade. Sixty participants (40 for EECS and 20 for ME) are selected from a nationwide applicant pool of the top female 11th grade math and science students. For summer 2014 we received 367 complete applications. Students must reside in the U.S. (or be U.S. citizens if living outside the U.S.). We are looking for students who are not yet certain about their future college majors, and who would like to explore engineering and computer science to determine whether these fields might be of interest.

<http://wtp.mit.edu/>

YOU GO GIRL! @ MIT

From website: You GO Girl turns 17 this year! Our four-day summer program is an on-campus introductory science and engineering program for girls entering ninth grade in the fall. The camp provides an introductory sampling of hands-on science and engineering activities mixed with high school preparatory sessions. Girls build motorized LEGO cars, experiment with strobe-light photography, “breed” LEGO fish cells to understand the relationships between genes and traits, and more. Any girl who can commute to our program on the MIT campus is eligible to attend. There is a suggested materials donation of \$40.00.

<https://edgerton.mit.edu/yougogirl>

Government, Law, International Relations

FOUNDATIONS OF LAW AND ETHICS AT TUFTS UNIVERSITY

From website: The Foundations of Law & Ethics program will introduce you to the fundamental concepts of legal thinking, examined through the lens of historical and contemporary issues. Improve your ability to write and convey your viewpoints more clearly, assess the validity of arguments, and learn to identify mistakes in reasoning. Exploring these foundations of legal thought and practice will give you the opportunity to see yourself in the role of an advocate for others and help you assess your interest in this field. You will gain insights in five key areas: history of legal thinking; philosophy of justice; the relationship between legal theory and scientific research; the study of valid and effective forms of linguistic communication; and the exploration of important, concrete legal issues such as hate speech, juvenile punishment, and mitigating mental factors. Additionally, you will be introduced to current legal issues through guest lectures by experts in law, philosophy, psychiatry, and forensic neuroscience.

<http://ase.tufts.edu/tuftssummerstudy/Foundations.asp>

INTERNATIONAL RELATIONS PROGRAM AT GEORGETOWN

From website: Renowned as a center of international dialogue, Georgetown is a venue that international leaders often choose to state their positions and calls for action. You will study at one of the oldest universities in the world, learn from distinguished faculty and gain valuable hands-on experience that will help you better understand and appreciate today's global issues and challenges. Learn and live in Washington, DC—a center for international relations.

<http://scs.georgetown.edu/courses/1256/international-relations>

JOHN F. KENNEDY INSTITUTE OF GOVERNMENT (CHOATE)

From website: Established to honor the memory of President Kennedy — a member of Choate's Class of 1935 — The John F. Kennedy '35 Institute in Government is designed to stimulate your curiosity about public policy and your desire to serve the public interest. The highlight of the program is 5 days in Washington, D.C. As a Kennedy Institute participant, you will see government in operation by watching House and Senate debates; observing committee hearings on Capitol Hill; and sending time with officials in The White House and Supreme Court. You will get a real insider's feel for politics by meeting with representatives of interest groups, national political parties, and the media. Applicants for The Kennedy Institute should have completed their freshman year in high school and a course in U.S. history or its equivalent. Knowledge of politics is not necessary, but your desire and willingness to be engaged in various topics — politics, economics, or international affairs — is essential.

<http://www.choate.edu/page.cfm?p=623>

MARYMOUNT UNIVERSITY'S CRIMINAL JUSTICE SUMMER INSTITUTE IN WASHINGTON, D.C.

From website: Marymount's expert faculty will facilitate examination of such topics as the role of the media in influencing public perceptions and public policy in areas like juvenile justice, the death penalty, and gun control. Guest speakers – including criminologists, federal agents, local law enforcement officers, and forensic scientists – will supplement the classroom instruction with real-life examples and anecdotes.

<http://www.marymount.edu/summer/dc/cj.aspx>

UCLA MOCK TRIAL SUMMER INSTITUTE

From website: This week-long program is a great way to broaden your knowledge base, explore college and career options, boost your self-confidence and powers of persuasion - all while making new friends and having fun! Come to Los Angeles to train with the National Champion UCLA Mock Trial Team Coach and Team Members! Learn effective trial advocacy techniques and improve your public speaking skills. UCLA has won the Collegiate National Championship four times in the last decade (most recently 2014) and you will have the chance to work with both students and coaches.

<http://www.summer.ucla.edu/institutes/MockTrial>

UNIVERSITY OF TEXAS EL PASO LAW CAMP

From website: UTEP's Patricia and Paul Yetter Law School Preparation Institute offers a High School Law Camp each year. The LSPI HSLC is a three-week, all-day summer program that gives high school students an opportunity to explore a career in law and prepare for college. Camp participants engage in a variety of activities, including case law instruction, field trips to legal community organizations, professional skills development, and a mock trial exercise. The LSPI HSLC takes place on the UTEP campus.

<http://academics.utep.edu/Default.aspx?tabid=67717>

SHIMER PRELAW ACADEMY

From website: The Shimer Prelaw Academy offers motivated high school students the opportunity to experience what law school classes are like, learn about different legal practice areas, and explore the fundamentals of both civil and criminal law. This week-long program will challenge students to think critically, spot legal issues, and construct arguments. Students will read actual cases and participate in discussions with practicing attorneys. The Shimer Prelaw Academy is an eye-opening experience, whether you have always dreamed of becoming an attorney or if you are just curious to learn more about the legal process.

<https://admissions.iit.edu/summer/summer-prelaw-institute>

Great Books

AMHERST GREAT BOOKS SUMMER PROGRAM

From website: Find your voice in the classroom. The Great Books Summer Reading Program gives students the opportunity to grow academically and socially as they prepare for high school or college. Open discussions encourage students to express themselves and give power to their ideas. Students gain confidence in their ability to read a text closely and express their ideas clearly both verbally and in writing.

www.greatbookssummer.com/programs/campuses/amherst-college/

HIGH SCHOOL GREAT BOOKS PROGRAM AT THOMAS AQUINAS (CALIFORNIA)

From website: Each summer for two weeks, high school students from around the country join members of the teaching faculty on the campus of Thomas Aquinas College for spirited conversation, engaging firsthand some of the best works of the past 2,500 years. They read and discuss works selected from the masters of the Western intellectual tradition, including Plato, St. Athanasius, Euclid, Sophocles, O'Connor, Shakespeare, St. Thomas Aquinas and Pascal. It is a time for forging new friendships, for enjoying the give and take of rational argument, and for pursuing the truth, which civilizes, ennobles, and liberates.

<http://www.thomasaquinas.edu/admission/high-school-summer-program>

ARETE PROGRAM AT THE UNIVERSITY OF DALLAS

From website: According to the great texts of the past, the noble life requires removing all scales from one's eyes and seeing clearly. The next step is to "do" the right thing: to be able to choose, in sometimes ambiguous circumstances, the path that leads to freedom rather than enslavement. This twofold process, one which encourages us to live nobly, has formed the basis of Liberal Education and constitutes the foundation on which civilization rests. In introducing you to the essential texts of Western Civilization and allowing you to reflect on works of fine art, film and music, Arête will offer you a taste of how education frees us.

<http://www.udallas.edu/travel/areteinirving/>

LATIN IN ROME PROGRAM AT THE UNIVERSITY OF DALLAS

From website: Our purpose is to stimulate students - to awaken an interest in the history, politics, art and architecture of Rome, while engaged in advanced study of Latin and the people who spoke it. Most of the places we visit will be the immediate subject of the tutorial sessions. In such a setting, grammar becomes a map to a familiar place, and vocabulary a newly discovered old friend. Above all, we strive to preserve what some have called a "dead language" in living minds. And, as you probably know, such study has always been thought to be the irreplaceable foundation of a truly liberal education.

<http://www.udallas.edu/travel/latininrome/>

P.E.A.K. AT WYOMING CATHOLIC COLLEGE

From pamphlet: Experience 10 days of classes with WCC professors, along with a 3-day, 2-night backpacking trip. There will be horseback riding, caving, canoeing, July 4th fireworks, rock climbing, rappelling, daily Mass, confession, adoration, and great new friends. For more information, contact the admissions office at admissions@wyomingcatholiccollege.com or by phone (307-332-2930).

P.E.A.K. ASCENT AT WYOMING CATHOLIC COLLEGE

From pamphlet: Experience 4 days of classes with WCC professors, along with a 5-day, 3-night backpacking trip. There will be horseback riding, caving, canoeing, July 4th fireworks, rock climbing, rappelling, daily Mass, confession, adoration, and great new friends. For more information, contact the admissions office at admissions@wyomingcatholiccollege.com or by phone (307-332-2930).

SHAKESPEARE IN ITALY PROGRAM AT THE UNIVERSITY OF DALLAS

From website: Shakespeare was a great English playwright and poet who chose to set many of his plays in Italy. Shakespeare's Italian plays depict different periods of time from the early moments of the Roman Republic through the decline of the Empire, to the height of the Italian Renaissance. The purpose of our travels in Italy is both to stimulate a genuine interest in literature, art and theology, and to raise certain main issues that are prominent in these fields. History and drama intersect at every site, resulting in a greater awareness of our Western heritage and a deeper understanding of Shakespeare's art.

<http://www.udallas.edu/travel/shakespeareinitaly/>

THE SUMMER ACADEMY AT ST. JOHN'S COLLEGE

From website: The St. John's College Summer Academy offers rising high school juniors and seniors the opportunity to experience the distinctive community of St. John's College through an immersive, weeklong course of study based upon a specific intellectual theme. Students will delve into a diverse collection of primary texts and engage in stimulating discussions chosen to highlight questions central to the human mind and spirit. With exciting classroom activities and numerous off-campus group excursions, the Summer Academy program also provides fun opportunities to build friendships with like-minded peers both in and out of the classroom.

<http://www.stjohnscollege.edu/admissions/summeracademy.shtml>

Humanities: History and Philosophy

BIBLICAL PHILOSOPHY & HEBRAIC HERITAGE

From website: This program will guide Christian students from The King's College and other universities to appreciate the value of the "Judeo" in the "Judeo-Christian" intellectual tradition. The program features six weeks of course work based at The Herzl Institute in Jerusalem, including visits to key historical and archaeological sites and museums to enrich the Scriptural and Jewish cultural components.

<https://www.tkc.edu/summer-kings>

THE CITIES OF GOD & MAN SUMMER ACADEMY AT KING'S COLLEGE (NY)

From website: The Cities of God & Man Academy is designed for high school students who love ideas and want to understand the philosophical ideas at the foundation of modern society. Study ideas and see the sites that make NYC famous!

<https://www.tkc.edu/summer-kings>

GENESIS AT BRANDEIS UNIVERSITY

From website: Genesis is a summer program for high school students founded at Brandeis University in 1996 with the support from Steven Spielberg's Righteous Person's Foundation. Genesis is known as one of the premier Jewish educational programs for high school students in North America. Students engage in programs that integrate Jewish studies, the arts, humanities and community building. Topics include culinary arts, gender and sexuality, business and technology, science, and world relations.

<http://www.brandeis.edu/highschool/genesis/index.html>

GEORGETOWN UNIVERSITY INTERNATIONAL RELATIONS PROGRAM

From website: This eight-day program combines classroom lectures from Georgetown faculty and guest speakers with visits to organizations involved in foreign policy, small-group discussions of newsworthy topics and an international crisis simulation. Areas of study include diplomatic, economic and military instruments of foreign policy; international organizations; international law; competing ideologies in international order; self-determination; the environment; terrorism; civil war; weapons of mass destruction; problems in the developing world; and the future of the international system.

<http://scs.georgetown.edu/departments/21/summer-programs-for-high-school-students/>

PRE-COLLEGIATE SUMMER PROGRAM IN EARLY AMERICAN HISTORY AT THE COLLEGE OF WILLIAM AND MARY

From website: This fast-paced, in-depth and immersive course for high school juniors and seniors will offer a variety of approaches to studying the past, but the chief feature will be classes conducted "on site" at the abundant historic places in the Chesapeake region. Readings and classroom work at the College will set the stage for the site visits by providing essential background on the wider context of American development.

Students will take one course, History 216, and may choose from the topic From the Founding of Jamestown through the American Revolution, or From the American Revolution through the American Civil War.

<http://www.wm.edu/as/niahd/precollegiatesummer/index.php>

THE ROOTS AND HISTORY OF AMERICAN LIBERTY AT HILLSDALE COLLEGE

From website: Rising high school juniors, seniors, and talented sophomores are invited to earn college credit while studying with Hillsdale faculty in an intensive two-week summer travel seminar on the origins and development of the American experiment of liberty under law. Course destinations include Hillsdale, MI; Gettysburg and Philadelphia, PA; and Washington, D.C.

<http://www.hillsdale.edu/admissions/high-school>

LIBERTY AND LEARNING YOUTH CONFERENCE AT HILLSDALE COLLEGE

From website: Students are invited to study the principles of Constitutional government and the Second Amendment with Hillsdale Faculty while practicing marksmanship at the Hillsdale College John Anthony Halter Shooting Sports Education Center. A Constitutional Essay contest will award one participant a \$4,000 Hillsdale College scholarship.

<http://www.hillsdale.edu/admissions/high-school>

THE UNIVERSITY FELLOWS GREAT IDEAS SUMMER INSTITUTE

From website: GISI is a unique week-long academic experience for high school students hosted on the campus of Samford University in Birmingham, Alabama. This institute offers an opportunity for intellectually ambitious students to enjoy the energy of a college classroom, engage ideas that form the essence of the Western Intellectual Tradition, and develop friendships with exceptional high school students from around the country.

<https://www.samford.edu/university-fellows/summer-programs/>

Leadership

THE AMERICAN LEGION ARIZONA BOYS STATE

From website: American Legion Boys State is among the most respected and selective educational programs of government instruction for U.S. high-school students. A participatory program in which students become part of the operation of local, county and state government, Boys State was founded in 1935 to counter the socialism-inspired Young Pioneer Camps. The program was the idea of two Illinois Legionnaires, Hayes Kennedy and Harold Card, who organized the first Boys State at the Illinois State Fairgrounds in Springfield. American Legion Auxiliary sponsors a separate but similar program for young women called Girls State.

<http://arizonaboysstate.net/>

THE AMERICAN LEGION ARIZONA GIRLS STATE

From website: The Girls State program provides young women of high school age the opportunity to come together to study state government. It teaches them to understand that they are an integral part of the political process. It helps them realize they have a responsibility to make tomorrow a better time, the world a better place, and that this job is up to them regardless of religious or political beliefs. It gives them the opportunity to live together under their own government, which is executed entirely by them, and to deal with problems as they arise. They will see the political process work effectively or have setbacks.

<http://www.azgirlsstate.com/>

CAPSTONE LEADERSHIP ACADEMY AT THE UNIVERSITY OF ALABAMA

From website: The University of Alabama's Capstone Council and the Honors College hosts an annual Capstone Leadership Academy. One hundred outstanding high school sophomores who have shown an interest in leadership through service will be selected to participate in this event to be held on The University of Alabama campus. High School Sophomores are nominated to apply by their high school counselors in the fall and the Academy meets in April of each year. For more information, please contact honors@ua.edu.

CENTER FOR THE TALENTED YOUTH: CIVIC LEADERSHIP INSTITUTE

From website: Through an introductory course in Service, Leadership & Community Transformation, students are challenged to learn in new ways and apply their skills in real-world settings. Several times a week, in their class groups, students engage in service projects that span neighborhoods, organizations, and approaches to addressing social problems.

<http://cty.jhu.edu/summer/grades7-12/leadership/>

CENTER FOR TALENTED YOUTH: GLOBAL ISSUES IN THE 21ST CENTURY

From website: As citizens living in the twenty-first century, we face numerous challenges and opportunities. In an increasingly interconnected world, choices we make locally have significant global implications. CTY's program for 10th through 12th graders focuses on key global issues in the twenty-first century. By bringing together academically talented students from all over the country to wrestle with major issues facing the world today, our summer programs are able to offer an unusual educational experience, one geared both to the students' high abilities and to their need for peers who share their academic abilities and their love of learning. Princeton University, a premier educational institution and the United States' fourth oldest college, offers an outstanding setting for our program. As you read through this catalog, you will learn more about what we have to offer and how our courses can help highly able students explore their potential to the fullest. If you have already experienced our summer programs, we welcome you back.

<http://cty.jhu.edu/summer/grades7-12/princeton/>

CONGRESSIONAL PAGE PROGRAM

From website: The Senate gained its first page in 1829, a nine-year-old boy named Grafton Hanson who was appointed by Senator Daniel Webster. Throughout the 19th century, Senate pages served as messengers and general helpers. Usually around twelve years old, early pages were often local orphans or children of widowed mothers and their Senate income helped the family. Today, Senate pages come from all 50 states. Still appointed and sponsored by a senator, they must be high school juniors, at least sixteen years old, and attend school. Senate page duties consist primarily of delivery of correspondence and legislative material within the Congressional complex. Other duties include preparing the chamber for Senate sessions, and carrying bills and amendments to the desk. Pages attend classes in the early morning at the United States Senate Page School, a program fully accredited by the Middle States Association of Colleges and Schools. Contact your senator's office for more information on applying to be a Senate Page.

http://www.senate.gov/reference/reference_index_subjects/Pages_vrd.htm

LEADERSHIP SEMINAR AT NOTRE DAME UNIVERSITY

From website: Notre Dame Leadership Seminars explore topics affecting the global community. The courses are centered on vibrant discussion and a robust exchange of ideas. This creates a context in which students are encouraged to examine their own conclusions and hone their own leadership capacities by improving their communications and analytical skills. Expenses for students accepted to Leadership Seminars—including transportation to and from Notre Dame—will be paid for by the University. Approximately 100 students are admitted to Leadership Seminars each year, and students are eligible to receive one college credit upon completion of the program. Topics from past years included "Science, Ethics, and Responsibility," "Global Issues," and "American Arts, Pop Culture, and Social Change."

<http://precollege.nd.edu/leadership-seminars/>

STEP UP TO LEADERSHIP PROGRAM

From website: Step Up to Leadership Program, a weeklong leadership development program for high school students from across the nation, is hosted by Claremont McKenna's Kravis Leadership Institute. The program assembles a diverse group of students to learn and practice effective leadership, culminating in a community service project for the City of Claremont. This year's students will provide their services to rejuvenate marked curbing in the Claremont Village.

<http://kravisleadershipinstitute.org/about/mission-history/>

WORLD AFFAIRS YOUTH SEMINAR

The World Affairs Youth Seminar, conducted by faculty, staff, and students from Auburn's College of Education and members of the Persistent Issues in History Network, is open to rising 10th – 12th graders and uses the Model United Nations (MUN) forum to examine global issues in a "real world" context. Participants assume the role of country delegates and strive to accurately represent the viewpoints of their assigned country in daily MUN General Assembly sessions.

<http://www.auburn.edu/outreach/opce/auburnyouthprograms/wa.htm>

Mathematics and Science

AEROSPACE ENGINEERING SUMMER PROGRAM

From website: Explore the field of aerospace engineering, tour Rensselaer Polytechnic Institute's top-tier research labs and learn how experimental data are collected by running wind tunnel tests. Participants will apply their new aerodynamic and flight mechanic knowledge by building a balsa glider and an electric radio controlled airplane which will be flight tested on the final day of the program.

<http://summer.rpi.edu/programs/2014/aerospace-engineering>

AEROSPACE ASTRO ENGINEERING PROGRAM AT EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

From website: Our “Astronautics Track” Aerospace Engineering summer program places a focus on the fundamental skills needed to develop space mission concepts, and how these concepts relate to Astronautical Engineering. This is a mathematics intensive program where students will be challenged to learn and have a better understanding of the world of rockets, spacecraft, satellites, orbits, and the benefits that have been derived and are currently being developed by the American Spaceflight Program!

<http://summercamps.erau.edu/camps/aerospace-engineering-astro-track-camp.html>

UNIVERSITY OF ARIZONA BIOSPHERE 2

From website: Biosphere 2 is pleased to announce the Summer Science Academy, a unique educational experience unlike anything else in the world. Middle and high school students interested in earth and ecosystem sciences, collaboration, and leadership development are invited to spend a week at the iconic Biosphere 2 research facility. Come join the cutting-edge science community at the University of Arizona for a world-class educational adventure. Student participants will learn and practice science 'under-the-glass', doing hands-on research projects in the Biosphere 2 biomes: tropical rainforest, savanna, ocean, mangrove marsh, and coastal fog desert. Participants will apply scientific skills to conduct experiments and collect data while working side-by-side with Biosphere 2 researchers. The week will culminate with presentations of research findings. All instruction and activities are conducted in English.

www.b2science.org/outreach/sciacademy

UNIVERSITY OF ARIZONA KEYS PROGRAM

KEYS High School Summer Internship Program is committed to providing hands-on research opportunities to talented students from diverse backgrounds. By exposing them to all facets of science research at the University of Arizona, KEYS fosters knowledge, skills, and confidence and helps students define their degree and career goals...The program concludes with the KEYS Research Showcase, where students present their results to their families, UA scientists, and program sponsors. Previous KEYS interns report that the program has changed their lives and taught them that they are capable of making important contributions to science.

UNIVERSITY OF ARIZONA MED-START PROGRAM

From website: Med-Start is a summer academic enrichment program for any 11th grade Arizona high school student interested in a health career. Participants prepare for college through classes and explore career opportunities. Only 40-60 students accepted per year. Students participate in the program during the summer between their junior and senior years.

<https://diversity.medicine.arizona.edu/med-start>

AMC MATHEMATICAL OLYMPIAD SUMMER PROGRAM (MOSP) at the UNIVERSITY OF NEBRASKA

From website: The rigorous curriculum and daily schedule of the MOSP is designed to achieve the goals of the program. The MOSP will give 24 students, including the six 1999 IMO team members and two alternates extensive practice in solving mathematical problems which require deeper analysis than those solved by students in even the best American high schools. Full days of classes and extensive problem sets will give students thorough preparation in several important areas of mathematics which are traditionally emphasized more in other countries than in the United States. These topics include combinatorics arguments and identities, generating functions, Pigeonhole Principle, inclusion exclusion, Ramsey's Theorems, graph theory, recurrence relations, telescoping sums and products, probability, number theory, polynomials, theory of equations, complex numbers in geometry, algorithmic proofs, combinatorial and advanced geometry, functional equations and classical inequalities. Acquaintance with and understanding of these topics is important for reasonable performance in an IMO. The MOSP program ensures that the IMO record of the United States properly reflects the energy and creativity of its brightest students. Following the MOSP, the six-member USA team will travel to the IMO site.

<http://www.maa.org/math-competitions/mathematical-olympiad-summer-program-mosp-info-page>

AMS MATHEMATICAL PROGRAMS FOR HIGH SCHOOL STUDENTS

From website: Summer programs that help gifted students explore the world of mathematics research (most are residential programs accepting applications nationwide). - See more at:

<http://www.ams.org/programs/students/high-school/emp-mathcamps#sthash.PxuGAmnc.dpuf>

<http://www.ams.org/programs/students/high-school/emp-mathcamps>

AWESOMEMATH

From website: A three-week intensive summer camp for mathematically gifted students from around the globe. An initiative in response to parents and teachers of bright students who have not yet shone at the Olympiad level, as well as of those who would like to expand what they have learned in programs such as MATHCOUNTS. These talented students wish to hone their problem solving skills in particular and further

their mathematics education in general. Many of our participants seek to improve their performance on contests such as AMC10/12, AIME, or USAMO.

<https://www.awesomemath.org/summer-program/>

B.E.S.T. SUMMER PROGRAM AT THE UNIVERSITY OF DAYTON

See Business

BIO@TECH SUMMER INSTITUTE FOR INVESTIGATIVE BIOLOGY

From website: During the summer of 2014 Georgia Tech School of Biology and Center for Education Integrating Science, Math and Computing offers **BIO@TECH**, an intensive three-week investigative biology experience for high school students with strong interests in the biological sciences.

<http://www.biology.gatech.edu/undergrad/biotech>

BIOINFORMATICS INQUIRY THROUGH SEQUENCING

From website: Tufts is offering two sections of a six-week course for rising high school seniors titled Bioinformatics Inquiry through Sequencing, or BioSeq. This course will allow students to experience the excitement of participating in a genuine research-based activity in the field of bioinformatics. In the process, they will have the opportunity to learn important molecular biology and genetics laboratory techniques, work with a next-generation DNA sequencer, and use advanced computer technology to gather and make sense of the data. Students will be exposed to all the components of an active research environment, including proposal preparation, data analysis, collaboration, and mentoring.

<http://ase.tufts.edu/tuftssummerstudy/bioseq.asp>

BROWN ENVIRONMENTAL LEADERSHIP LAB IN HAWAII

From website: This spring, Brown University offers curious high school students a unique opportunity to explore Hawaiian culture, tropical ecology, and leadership skills. Traveling from the mountains to the sea, students will explore the Big Island's diverse terrestrial and marine ecosystems, studying geology, forest ecology, aquatic life, cultural studies, and land use. Participants will stay at two scenic locations during the course, Volcanoes National Park and the South Kona Coast. These sites are not only of important cultural significance but provide easy access to the dynamic, living laboratory that is Hawai'i. Leadership content is integrated into this immersive course, enabling students to develop and practice socially responsible leadership both during the program and beyond.

<http://www.brown.edu/academics/pre-college/bell/hawaii/>

CALIFORNIA STATE SUMMER SCHOOL FOR MATHEMATICS AND SCIENCE (COSMOS)

From website: COSMOS is an intensive four-week summer residential program for students who have demonstrated an aptitude for academic and professional careers in science, technology, engineering and mathematics (STEM) subjects.

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

CANADA/USA MATHCAMP

From website: 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.

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

CHEMISTRY AND MEDICINE SUMMER SCHOLARS PROGRAM AT RENSSELAER POLYTECHNIC

From website: The Chemistry and Medicine Summer Scholar program is a two week enrichment program that will show how chemistry plays an important role in discovering new medicine. During this hands-on program, students will solve problems mainly on organic chemistry related to the synthesis of medicine.

<http://summer.rpi.edu/programs/2014/chemistry-and-medicine-summer-scholars-program>

CHILDREN'S HOSPITAL & RESEARCH CENTER OAKLAND (CHORI)

From website: Based on a structured curriculum, including participation in weekly seminars, research discussions, and a one-day Research Symposium, the CHORI Summer Research Program is designed to provide an unsurpassed opportunity for students to immerse themselves fully in the world of basic and/or clinical research for three months during the summer.

http://www.chori.org/Education/Summer_Internship_Program/summer_research_home.html

CLARK SCHOLARS PROGRAM @ TEXAS TECH

From website: The Clark Scholar Program is an intensive seven week summer research program for highly qualified high school juniors and seniors. The Program at Texas Tech University helps the Scholars to have a hands-on practical research experience with outstanding and experienced faculty. The Scholars will receive a \$750 tax-free stipend and room and board. The Program

includes fun activities, weekly seminars and field trips. This Program provides opportunities for research in all academic areas in the university. (click on Research for list of all research areas).

<http://www.depts.ttu.edu/honors/academicsandenrichment/affiliatedandhighschool/clarks/>

CLARK UNIVERSITY SUMMER SCIENCE PROGRAM

From website: The Human-Environment Regional Observatory (HERO) program is a unique undergraduate-graduate-faculty experience that engages in research on human-environment relationships in Massachusetts. HERO Fellows conduct hands-on research under the mentorship of Clark University faculty. The research conducted by HERO Fellows often leads to scholarly publications, presentations at academic conferences across the USA, and awards and honors. This eight-week curriculum is sponsored by the U.S. National Science Foundation through its Research Experiences for Undergraduates Site (REU Site) program. HERO Fellows analyze the causes and consequences of global environmental changes at local scales in faculty-led research projects. Each Fellow is paired with a Clark faculty mentor and other researchers on the HERO team in one of two research domains. Fellows will learn how to use various research methods, including GIS, remote sensing, geostatistical modeling, interviews and focus groups.

<http://www.clarku.edu/departments/hero/>

CLEMSON VET CAMP

From website: Learn more about animals and animal industries through hands-on experiences. This exciting opportunity will include live animal veterinary skills by milking dairy cows, bottle feeding calves, working beef cattle, shearing sheep, artificial insemination in pigs, and handling of horses. Learn how to dissect post-mortem animals, suture, ultrasound, perform blood tests and evaluate histological samples.

<http://www.clemson.edu/summer/summer-science/coursedescriptions/VetCamp.html>

THE CNSI NANOSCIENCE LAB SUMMER INSTITUTE

The CNSI Nanoscience Lab Summer Institute is an exclusive summer workshop for high school students interested in advanced science and technology. During this five day program, students have the unique opportunity to explore questions similar to those currently investigated by the scientific community. The program involves hands-on experiments that combine vigorous scientific methodologies and techniques with projects that are both fun and exciting. Moreover, these experiments, designed by UCLA researchers, teach students the key concepts of nanoscale phenomena that make nanoscience and nanotechnology one of the most exciting fields of research today.

<http://www.summer.ucla.edu/institutes/NanoScienceLab>

COMMUNITY SUMMER SCIENCE PROGRAM @ BROOKHAVEN NATIONAL LABORATORY

From website: Advanced high school students who have an interest in a science, engineering, or math-based career can explore their options this summer at one of the Department of Energy's premiere facilities,

Brookhaven National Laboratory. A variety of programs are available, each connecting to the Lab's cutting-edge research and facilities. Programs include hands-on workshops, lectures by staff scientists and engineers, and tours of the Lab's unique facilities.

<http://www.bnl.gov/education/program.asp?q=173>

CONSTRUCTION MANAGEMENT AT CLEMSON UNIVERSITY

From website: Join us for an exciting introduction to the construction world. Construction management combines concepts from the engineering, design and management disciplines in order to effectively and efficiently build a project from, quite literally, the ground up. Students will learn the basics of plan reading along with critical soft skills (e.g., conflict resolution, communication, critical thinking, etc.) for managing the wide range of participants involved in the construction process. Student teams will engage in multiple competitive simulations, a hands-on project and two site visits to projects under construction on Clemson campus.

<http://www.clemson.edu/summer/summer-science/coursedescriptions/Construction.html>

CORNELL OCEANOGRAPHY OF THE GULF OF MAINE

From website: A joint venture between Sea Education Association & Cornell University's Shoals Marine Laboratory, Oceanography of the Gulf of Maine allows students to study offshore oceanography while making a transit from Cape Cod to coastal Maine, and then to study the intertidal zone of Appledore Island, Maine. Two Cornell University credits are issued for completion of this program.

http://www.sml.cornell.edu/sml_cc_ogm2.html

CORNELL RESEARCH APPRENTICESHIP IN BIOLOGICAL SCIENCES

From website: The Cornell University Research Apprenticeship in the Biological Sciences (RABS) offers serious, research-oriented students the rare opportunity to join a top-notch laboratory at one of the world's leading research institutions. Cornell biomedical scientists strive for excellence and use their knowledge to solve global problems and benefit society. During this innovative, intensive, and highly selective program, you will become part of the renowned biomedical research community at Cornell's Ithaca campus, studying under the guidance of distinguished Cornell faculty members as you pursue research in an area of your choosing.

<http://www.sce.cornell.edu/sc/programs/index.php?v=170>

ENGINEERING NEW FRONTIERS AT THE CATHOLIC UNIVERSITY OF AMERICA

From website: At ENF, students will work closely with CUA engineering faculty members to explore the wide variety of engineering opportunities in our society. Through classes, demonstrations, and hands-on experiments, students will experience what college engineering majors and professional engineers do. Living

on campus, students also get a "taste" of college and exposure to the best of Washington, D.C., including special museum tour, sporting events, and various other safe recreational activities.

<http://summer.cua.edu/precollege/>

ENGINEERING SUMMER ACADEMY COURSE AT THE OHIO STATE UNIVERSITY

From website: The Engineering Summer Academy is a three-week program consisting of 72 hours of classroom and laboratory instruction. This academic experience includes problem solving and introduction to computer systems, including CAD, spreadsheets, and editors. The course, Engineering 1186.02, includes methods of problem solving, algorithmic development, and introduction to three-dimensional orthographic and pictorial visualization and presentation. To be selected for this program, students must have completed their junior year in high school. Additionally, it is recommended that students rank in the top 10 percent of their high school classes and show strength in mathematics as demonstrated by the PSAT.

<https://eeic.osu.edu/pre-college-engineering-summer-academy-course>

EPIC (ENGINEERING POSSIBILITIES IN COLLEGE) AT CAL POLY, SAN LUIS OBISPO

From website: Are you interested in building a rocket, growing new blood vessels, creating an Android phone app, developing a solar car or designing a water filter for Third World countries? These creative opportunities and many more await you at EPIC — Engineering Possibilities in College — a one-week summer camp at Cal Poly for students in grades 7 to 12. EPIC will introduce you to the world of engineering in hands-on labs taught by university professors and on tours of local engineering companies led by industry professionals.

<https://epic.calpoly.edu/>

ENVIRONMENTAL STUDIES SUMMER YOUTH INSTITUTE (ESSYI)

From website: Located in the heart of New York's Finger Lakes region, on beautiful Seneca Lake, the Environmental Studies Summer Youth Institute at Hobart and William Smith Colleges offers a two-week, college-level interdisciplinary program for talented high-school students. You will conduct research with faculty members in a variety of locations: on the HWS William F. Scandling (a 65-foot vessel on Seneca Lake), in streams, quaking bogs, the Adirondack Mountains, and the Colleges science laboratories. Working in the field, in laboratories, in classrooms, and on a four-day camping trip, you will explore a range of topics in environmental policy, economics, and ethics, and come to see the natural world through the eyes of artists, historians, philosophers, and scientists. The program is designed as an introduction to a variety of environmental issues and perspectives on nature and our environment. ESSYI provides students with an understanding of the different perspectives and disciplines from which a person can explore the environment and environmental issues. This experience often enables ESSYI alums to make much more informed decisions about majors, minors and other interests in college.

<http://essyi.hws.edu/>

EUGENE AND RUTH ROBERTS SUMMER STUDENT ACADEMY

From website: City of Hope's Eugene and Ruth Roberts Summer Student Academy gives curious and hardworking students the opportunity to learn about science by actually doing it. Unlike traditional high school or college classes where the course of study is entirely determined by the instructor, City of Hope's summer program students select their own research project according to their individual areas of interest. Selected participants then spend 10 weeks working full-time as a member of a biomedical research team.

<http://www.cityofhope.org/summer-student-academy>

GARCIA RESEARCH SCHOLAR PROGRAM

From website: The Research Scholar Program for High School Students offers the opportunity for high school teachers and students to perform research on the forefronts of polymer science and technology together with GARCIA faculty and staff. Students work as part of focused research teams and are taught to make original contributions of interest to the scientific community. In addition to entering national competitions, the students are encouraged to publish in refereed scientific journals and to present their results at national conferences. Our goal is to convey to the students the excitement we enjoy daily in research. The program has no set time limits. Research is a lifetime learning experience, and we hope to remain a resource to our students long after "graduation".

<http://polymer.matscieng.sunysb.edu/srprog.html>

HAMPSHIRE COLLEGE SUMMER STUDIES IN MATHEMATICS

From website: Now in its 43rd 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).

<http://www.hcssim.org/>

HELIOS SCHOLARS AT TGEN

From website: Helios Scholars at TGen is a paid, eight-week summer internship program in biomedical research open to Arizona high school, undergraduate, graduate and medical school students. Interns work full-time on a research project under the mentorship of a TGen scientist to unravel the genetic components of diabetes, neurological disease and cancer. At TGen North in Flagstaff, interns focus their summer research on public health and pathogens such as Valley Fever and antibiotic resistant bacteria. Internships are available in all areas of translational bioscience: laboratory research, computational biology and bioinformatics, mathematics and statistics, and research administration.

<https://www.tgen.org/education-outreach/helios-scholars-at-tgen.aspx#.Vb1gk9VHAtx>

HEALTH SCIENCE HONORS AT TUFTS UNIVERSITY

From website: Learn about the philosophy and practice of medicine. As a Health Science Honors student, you will attend weekly physiology and anatomy lectures and labs, learning about the human body and its functions. You will participate in an exclusive series of behind-the-scenes visits to area hospitals, clinics, and medical laboratories. Through group sessions and the observation of patient treatments, you will discover the importance of thorough and compassionate patient interviewing skills.

<http://ase.tufts.edu/tuftsummerstudy/health.asp>

HIGH SCHOOL HONORS SCIENCE/MATHEMATICS/ENGINEERING PROGRAM @ MICHIGAN STATE UNIVERSITY

From website: The HSHSP provides its participants with a unique opportunity to “live and breathe” research in a university environment. Its goals are not only to educate individuals about the research process but to provide the right kind of social context for such knowledge and expertise to flourish. Our goal is not to produce award-winning projects (which often happens, I am pleased to note), but to provide opportunities to enrich one’s knowledge about intellectual work in science and mathematics and to make new and, hopefully, lasting friendships.

<http://education.msu.edu/hshsp/>

HIGH SCHOOL SUMMER SCIENCE RESEARCH PROGRAM @ BAYLOR

From website: The purpose of the Baylor University Summer Science Research Program (BUSSRP) is to give superior students hands-on research experience by working on research projects with Baylor University science professors in many disciplines. The research program occurs during the University's second session of summer school.

<http://www.baylor.edu/summerscience/>

HILLSDALE SUMMER SCIENCE CAMPS

From website: Rising high school sophomores and juniors are invited to deepen their scientific understanding and appreciation with Hillsdale College faculty in camps focused on molecular biology, chemistry and physics, and mathematics. Students of all academic interests are invited to attend, with at least one year of respective study being suggested as preparation. An optional examination at the conclusion of the camp provides the opportunity to earn one undergraduate college credit hour. Summer Science Camps are made possible by a grant from the Donald L. Murdock Foundation.

<http://www.hillsdale.edu/admissions/high-school>

HONORS SUMMER MATH CAMP AT TEXAS STATE UNIVERSITY

From website: The Mathworks Honors Summer Math Camp (HSMC) is an intensive multi-summer program for high school students. The goal of the program is to develop talented students of all socioeconomic backgrounds through immersive and in-depth experiences in an unique learning environment. Students develop important skills for future degrees and careers in math, science, engineering, and many other fields. Students are encouraged to apply as early as possible, as enrollment is limited to 60 openings split between first-year and returning students. Applications will not be considered until all parts have been received (application, teacher recommendation, and transcript).

<http://www.txstate.edu/mathworks/camps/hsmc.html>

IDAHO UNIVERSITY: JUNIOR ENGINEERING MATH AND SCIENCE PROGRAM

From website: Designed for rising seniors who have completed their junior year of high school and are at least 16 years of age, the Idaho Junior Engineering, Math and Science (JEMS) Summer Workshop provides an introduction to engineering through study of real-world problems within their technical and social contexts.

<http://www.uidaho.edu/engr/jems>

IDEAS: MATHEMATICAL AND STATISTICAL INVESTIGATIONS

From website: If you like math, then this camp is for you! We'll explore a variety of topics in mathematics and statistics that you won't see in high school, with an eye toward the many highly rated job opportunities that await students with God-given passion and interests in mathematics. This camp is hosted by Dordt College.

http://www.dordt.edu/events/ideas/mathematical_statistical_investigations.shtml

IMMERSION GEOMETRY AT CHOATE (CT)

From website: This intensive, brisk pace course covers the standard year-long geometry curriculum as students explore the fundamentals of Euclidean geometry and various applications of these concepts in the real world. In order to complete this year-long course in the summer session, students will be in class for the full academic day and may not enroll in additional courses. Enrollment carries a full 5 week boarding or day tuition. This course is appropriate for highly motivated students who have completed Algebra I.

<http://www.choate.edu/page.cfm?p=625>

INTEL SCIENCE SEARCH

From website: The Intel Science Talent Search (Intel STS), a program of Society for Science & the Public (SSP) is the nation's most prestigious science research competition for high school seniors. Since 1942, first in

partnership with Westinghouse and since 1998 with Intel, SSP has provided a national stage for the country's best and brightest young scientists to present original research to nationally recognized professional scientists.

<https://student.societyforscience.org/intel-sts>

INTRO TO ROBOTICS AT IIT

From website: The objective of this course is to provide an introductory experience to the field of robotics. Included in this experience, will be the engineering design process, a university-level programming language, and open-ended problem solving strategies. Students, working in small hands-on teams, will be presented with several authentic design challenges. To meet these challenges, students will design, build, and program an appropriate LEGO® EV3 robot, with National Instruments LabVIEW software. Teams will document and present their design solutions. Additional topics may include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, and timing sequences. The program also lets students experience what it's like to study and play on IIT Main Campus.

<https://admissions.iit.edu/summer/intro-robotics>

THE JACKSON LABORATORY

From website: Our Summer Student Program provides high school and college students with an opportunity to conduct independent research under the guidance of staff scientists. More than 2,000 students, including three Nobel Laureates, have participated in the program.

<http://education.jax.org/summerstudent/index.html>

THE JOAQUIN BUSTOZ MATH-SCIENCE HONORS PROGRAM AT ASU

From website: The Joaquin Bustoz Math-Science Honors Program is an intense academic program that provides motivated students an outstanding opportunity to begin university mathematics and science studies before graduating high school. The program is designed to provide a successful university experience for students who are underrepresented in the mathematics and science fields and to enhance their prospects for future academic success. The Joaquin Bustoz Math-Science Honors Program is intended for mature students with the academic potential to pursue careers that require a mathematics or science-based curriculum.

<https://jbms hp.asu.edu/about>

THE LUBBOCK PRE-FRESHMAN ENGINEERING PROGRAM AT TEXAS TECH UNIVERSITY

From website: The Lubbock Pre-Freshman Engineering Program at Texas Tech University is a math, science, and engineering summer enrichment program for 6th - 12th graders. We prepare students (including minorities

and women) to major in math, science, and engineering in college. Our curriculum includes subjects not usually taught in their schools. We also help them with study skills and interpersonal relationships. The Texas Tech University Department of Mathematics and Statistics has conducted the program in Lubbock for the past twenty-nine years. It is presented in seven-week sessions over four years.

<http://www.math.ttu.edu/texprep/>

LSU MATH CIRCLE

From website: Established in 2006, the LSU Math Circle summer enrichment program is a four-week summer program at LSU geared toward rising 9th-12th graders interested in investigating concepts in mathematics that are not usually introduced at the high school level. The program focuses on developing problem-solving abilities, critical thinking, and logical reasoning by exposing the students to interesting problems and ideas in various branches of mathematics, including combinatorics, number theory, probability, topology, and dynamical systems. LSU math graduate students and undergraduates lead campers through the process of thinking logically and creatively to solve these problems. In addition to working on problems, participants also attend lectures by LSU professors and enjoy recreational trips to local scientifically-based industries and research centers. The program runs from 9am to 4:30pm on weekdays.

<https://www.math.lsu.edu/dept/mathcircle>

MATH ACADEMY ON HAWK HILL

From website: Want to go beyond classroom math and explore beautiful excursive topics like GAMES, SYMMETRY, FRACTALS and INFINITY? Get immersed in hands-on experiential learning activities led by renowned mathematics faculty at Saint Joseph's University.

<http://sju.edu/int/academics/cas/resources/smc/index.html>

MATHLY AT BRYN MAWR

Do you want to explore and create mathematics? Then read on, for that's what MathILy is all about! In MathILy classes, instructors provide the framework and you get to make (and prove!) the conjectures. You will encounter new ideas, improve your problem-solving skills, learn lots and lots of advanced mathematics, and hone your overall thinking skills. You'll meet others like you. (Yes, really. We promise.) Most of all, you will find serious mathematics infused with levity. Many summer mathematics experiences are organized on the principle that simply combining smart people with mathematics will result in learning and fun. This is a true principle---but why not do better? MathILy promises a focused and individually tailored effort that elicits massive learning, enormous fun, and significant personal growth.

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

MATHLINKS SUMMER PROGRAM

From website: We are a three-week residential math summer program for students ages 12 to 17, based in San Diego, California. Our goal is to help improve our students' problem solving abilities, all in a fun and challenging environment. We will have three different levels of difficulty running in parallel, ranging from middle-school math (Mathcounts, AMC 8 style), to AMC10, AMC12 level and all the way up to AIME and USAMO levels. The campers will be placed in groups according to their skill level, but they will have the possibility to move from one group to another.

<http://mathlinks.us/>

MATHEMATICS SUMMER CAMP AT STONY BROOK UNIVERSITY

From website: 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, the mathematics of puzzles and games, Cryptography and coding, an introduction to the mathematics of finance, and statistics for the Biological Sciences. In addition students will learn to use MAPLE, an invaluable tool for anyone who is interested in studying Mathematics, Physics, Engineering, or Economics at the college level or beyond.

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

MODERN MATHEMATICS - INTERNATIONAL SUMMER SCHOOL FOR STUDENTS

From website: After Bremen (2011 and 2013) and Lyon (2012 and 2014), the International Summer School for Students offers once again ten days of intense learning and interaction with some of the world's leading mathematicians. This is a program designed for talented students in their last two years of high school or in their first two years at university, and it is open to international students from all countries. The language of the school is English. The program features plenary talks and mini-courses by leading international mathematicians, and students and instructors live on the park-like campus with ample opportunities for informal interaction. The program is hosted by Jacobs University in the Northern German city of Bremen To apply, please use the electronic application system. Before applying, please read the applicant information carefully.

<http://math.jacobs-university.de/summerschool/2015/>

NANOSCALE MICROSCOPY LAB AT UCLA

From website: Nanoscale Microscopy Lab is a one-week, hands-on, science learning opportunity for high school students on scientific imaging, a topic that is typically only accessible in an advance college level course. Specifically, students will be able to explore three key microscopy techniques for nanoscience research: fluorescence microscopy, scanning probe microscopy, and electron microscopy. This one-week summer course

offers an exploratory introduction to this important scientific skill for students as early as 10th grade at the high school level.

<http://www.summer.ucla.edu/institutes/NanoscaleMicroscopyLab>

NIH SUMMER RESEARCH INTERNSHIP PROGRAM

From website: Summer programs at the National Institutes of Health (NIH) provide an opportunity to spend a summer working at the NIH side-by-side with some of the leading scientists in the world, in an environment devoted exclusively to biomedical research. The NIH consists of the 240-bed Mark O. Hatfield Clinical Research Center and more than 1200 laboratories/research projects located on the main campus in Bethesda, MD and the surrounding area as well as in Baltimore and Frederick, MD; Research Triangle Park, NC; Hamilton, MT; Framingham, MA; and Detroit, MI. NOTE: the number of positions in Hamilton, Framingham, and Detroit is limited.

<https://www.training.nih.gov/programs/sip>

NEW YORK MATH CIRCLE SUMMER PROGRAM

From website: The Summer High School Math Circle is an academically intensive weekday program for students entering grades 9–12 in the fall that runs for three weeks, five hours a day. A typical day consists of a class in the morning, followed by lunch, and a problem solving session in the afternoon. Instructors and teaching assistants are very friendly and helpful, and the atmosphere is open and collaborative. NYU Courant Institute hosts this summer program.

<https://www.nymathcircle.org/summer>

OLIMPIADAS MATEMÁTICAS DE PUERTO RICO

Want to learn more about mathematics in Puerto Rico? Visit <http://www.ompr.pr/> for more information.

PROMYS AT BOSTON UNIVERSITY

From website: 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.

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

QUANTUM CRYPTOGRAPHY SCHOOL FOR YOUNG STUDENTS

From website: The Quantum Cryptography School for Young Students (QCSYS) is a unique, eight-day enrichment program for students hosted by the Institute for Quantum Computing (IQC) at the University of Waterloo. 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. Students get a first-hand look into the physics and mathematics of quantum mechanics, cryptography and how they merge into one of the most exciting topics in contemporary science — quantum cryptography. Participants meet and collaborate with some of the most renowned researchers the field has to offer. Daily social activities encourage relationship building between participants.

<https://uwaterloo.ca/institute-for-quantum-computing/programs/quantum-cryptography-school-young-students>

RESEARCH IN POLYMERS AT RENSSELAER POLYTECHNIC INSTITUTE

From website: The goal of this research week is to provide the high school students with the opportunities to (1) characterize and identify plastic materials using cutting-edge thermal analysis instrument in polymer center at RPI, (2) promote their understanding on the thermal properties of polymers, such as glass transition and melting temperatures, which will be the main consideration to dictate the usage of polymers in modern life and (3) ultimately enhance their awareness of plastic recycling issues. Students will contribute to the research group website of Professor Chang Y. Ryu (<http://homepages.rpi.edu/~ryuc/research.html>).

<http://summer.rpi.edu/programs/2015/research-polymers>

RESEARCH INTERNSHIP PROGRAM IN SCIENCE AND ENGINEERING @ BOSTON UNIVERSITY

From website: Under the mentorship of our distinguished faculty, post-doctoral fellows, and graduate students, high school summer research internship (RISE) students work on a designated research project designed by their professor for forty hours each week of the program. You will perform research in your chosen discipline while acquiring invaluable technical and analytical skills - as well as insight into the scientific process.

<http://www.bu.edu/summer/high-school-programs/research-internship/index.shtml>

RESEARCH IN THE BIOLOGICAL SCIENCES AT THE UNIVERSITY OF CHICAGO

From website: Furthering the diagnosis and treatment of cancer, discovering how to preserve blood, laying the mathematical foundations for the theory of genetic evolution—the University of Chicago Biological Sciences Division is a leader in these and many other areas of research. This summer, learn the techniques used in this sort of cutting-edge biological research in lab facilities of a quality not found in any high school. This four-week intensive training program is designed to expose students to a broad range of molecular, microbiological, and cellular biological techniques currently used in research laboratories.

<http://summer.uchicago.edu/high-school/ribs>

RESEARCH SCIENCE INSTITUTE AT MIT

From website: 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. Participants experience the entire research cycle from start to finish. They read the most current literature in their field, draft and execute a detailed research plan, and deliver conference-style oral and written reports on their findings.

<http://www.cee.org/research-science-institute>

ROSS PROGRAM AT OHIO STATE UNIVERSITY

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. Ambitious pre-college students with interests in mathematics and science are invited to apply. First-year students range in age from 15 to 18 years old. (In rare cases, younger or older students are accepted.) Admission decisions are based on several criteria, including: the applicant's work on some challenging math problems; essays concerning the applicant's interests and goals; teacher recommendations; and school transcripts.

<http://u.osu.edu/rossmath/>

RUTGERS UNIVERSITY - DISCRETE MATH PROGRAM

From website: 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.

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

SANTA CLARA UNIVERSITY SUMMER ENGINEERING SEMINAR (SES)

From website: This special summer experience is for current high school sophomores and juniors who are curious about engineering. The program is designed to acquaint participants with the engineering profession, the academic expectations of college, and the nature of life at a university. The SES program is designed to motivate young people to pursue science and engineering majors in college so they can ultimately participate in the scientific and technical work force. It provides participants with a chance to explore the many possibilities of engineering as a career while living in University residence halls staffed by program counselors. Participants eat their meals in University dining facilities, attend special workshops and complete their own engineering

projects. Participants experience the outside-of-class aspects of Santa Clara University through afternoon and evening recreational activities.

<http://www.scu.edu/engineering/about/ses.cfm>

SCIENCE AND ENGINEERING APPRENTICESHIP PROGRAM (SEAP)

See Military

SEMINAR FOR TOP ENGINEERING PROSPECTS (STEP)

From website: This seminar provides a dynamic, one week opportunity to explore the many disciplines within engineering and the exciting future career opportunities that they bring. During your week in the STEP program, you will be placed on a team of four students with whom you will learn fundamental engineering design skills that you will put to use in a multifaceted engineering design competition. You will attend various demonstrations, engineering lectures, and partake in tours of both Purdue and local engineering companies, all of which will give you the feel of being an engineering student. With this experience you will be able to get a glimpse into what campus life is all about. The program welcomes all rising High School Seniors who are considering any engineering discipline as their college major.

<https://engineering.purdue.edu/Engr/InfoFor/Honors/STEP>

SIEMENS WESTINGHOUSE SCIENCE COMPETITION

From website: The Siemens Competition in Math, Science & Technology recognizes remarkable talent early on, fostering individual growth for high school students who are willing to challenge themselves through science research. Through this competition, students have an opportunity to achieve national recognition for science research projects that they complete in high school. It is administered by Discovery Education and funded by the Siemens Foundation.

<http://www.siemens-foundation.org/en/competition.htm>

S.O.A.R.ING WITH MATHEMATICS

From website: Are you a high school student? Do you enjoy mathematics, science, statistics and/or engineering? If so, then you should consider going to SOAR (Students Optimizing, Analyzing, Researching) this summer at Austin Peay State University in Tennessee. Students with academic talent deserve the opportunity to develop their skills to the highest possible level!

<http://www.apsu.edu/soar>

STANFORD UNIVERSITY MATHEMATICS CAMP (SUMAC)

From website: SUMaC brings 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. It provides access for these students to advanced topics in mathematics, in a way that is fun and interesting.

<http://precollegiate.stanford.edu/sumac/index.html>

STEM FOR SCHOLARS AT THE UNIVERSITY OF SOUTH FLORIDA

From website: The USF STEM for Scholars Program is open to ambitious high school students entering grades 9 through 12. Through a diversity of courses the four-week program, seeks to expand student academic horizons, challenge them to become critical thinkers, prepare them for exciting careers in STEM fields, and inspire them to be creative problem-solvers. Through hands on experiences the participants will learn the art of mathematical and scientific research and discovery. Importantly, they will learn to appreciate the interdependence of the various STEM fields and the role mathematics plays in all these disciplines, including 3D visualization, computer science, and robotics.

<http://www.usf.edu/innovative-education/programs/pre-college/programs/stem-for-scholars.aspx>

STONES AND BONES: A PRACTICUM IN PALEONTOLOGY

From website: Join the Field Museum's Distinguished Service Curator Lance Grande for a four-week intensive practicum in paleontology. Go into the field and behind the scenes at the Field Museum to learn how fossils are collected, analyzed, and conserved, as you work alongside museum scientists in the lab and in the field. In Chicago, Grande and other Field Museum scientists will take you into the labs and galleries where they work and study as they introduce you to important concepts in geology, paleontological method, stratigraphy, and earth history. You will also learn about basic techniques for the study of evolutionary biology including comparative skeletal anatomy of fishes and other freshwater animals. You will also examine methodological concepts such as fossil preparation, illustration, and description. In this way, you will acquire the fundamental scientific background needed to discover and understand the significance of fossils in the field. Then, experience what life in the field is all about when you join the ongoing Field Museum expedition in the Green River Formation. This site is one of the world's most productive fossil sites and contains an entire 52-million-year-old community of extinct organisms. Previous expeditions to the Green River Formation have led Dr. Grande and his team to uncover thousands of fossils, including plants, insects, mammals, crocodiles, birds, lizards, turtles, and fishes, many of which are currently on display at the museum.

<http://summer.uchicago.edu/high-school/stones-and-bones>

STUDENT SCIENCE TRAINING PROGRAM @ UNIVERSITY OF FLORIDA

From website: The UF SSTP is a seven week residential research program for selected rising juniors and seniors who are considering medicine, math, computer, science, or engineering careers. The program emphasis is research participation with a UF faculty research scientist and his or her research team.

<http://www.cpet.ufl.edu/students/sstp/>

SUMMER INSTITUTE ON MEDICAL IGNORANCE

From website: t the heart of Q-Cubed is the College of Medicine's Curriculum on Medical Ignorance (CMI). The goal of this curriculum is to gain understanding of the shifting domains of ignorance, uncertainty, and the unknown as it relates to medicine and medical research. Developed in the mid-1980s, the Summer Institute on Medical Ignorance (SIMI) utilizes this form of thinking and was developed to enrich student education and general health literacy beyond classroom lectures. High school students, undergraduate students, and medical students all participate in the summer program. They have the opportunity to work closely with distinguished scientists and physicians, who teach them how to translate questioning techniques into their lives and classrooms.

<http://ignorance.medicine.arizona.edu/about-us/home>

SUMMER INTRODUCTION TO ENGINEERING @ NOTRE DAME

From website: "Introduction to Engineering Program" is interactive. It's guided in part by your interests and questions. We'll start with informal classroom lectures given by Notre Dame faculty and men and women currently employed as professional engineers.

<http://www3.nd.edu/~iep/>

THE SUMMER SCIENCE PROGRAM

From website: The Summer Science Program has been inspiring gifted young scientists for over 50 years, by accelerating their intellectual and social development. The Program takes place on two campuses: New Mexico Institute of Technology in Socorro, and University of Colorado in Boulder. At each campus, 36 rising high school seniors complete a challenging research project in celestial mechanics. Many alumni have gone on to distinguish themselves at selective universities, and to positions of leadership in their chosen careers.

<http://www.summerscience.org/home/index.php>

TULANE SCIENCE SCHOLARS PROGRAM

From website: The Tulane Science Scholars Program (TSSP) is a selective program for high school students who have exceptional talent in the sciences and mathematics. For-credit summer and non-credit Saturday academic year classes are offered by faculty members and graduate students who are passionate about sharing their subject area.

<http://tulane.edu/sse/tssp/>

ULTIMATE TECHNOLOGY BOOT CAMP AT ARIZONA STATE UNIVERSITY

From website: Do you know a high school student who has what it takes to spend 10 days hacking at technology at ASU poly campus? Learn from award winning faculty and instructors, how to create mobile apps, develop cutting edge games, design and build robots, and more. Work together in teams to learn design, development and content integration for software like games and apps. The camp is two weeks long and completely residential.

<http://camp.asu.edu>

UNIVERSITY OF UTAH SUMMER MATHEMATICS PROGRAM FOR HIGH SCHOOL STUDENTS

From website: 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. Participants will receive three university credits in mathematics (graded credit/no credit).

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

UNIVERSITY OF VERMONT: UVM/GIV ENGINEERING SUMMER INSTITUTE

From website: The technologies of tomorrow start at this Institute where approximately 100 high school students from Vermont, the US, and around the world explore engineering solutions to societal problems. At GIV Engineering, you'll get up close and personal with cutting-edge sustainable engineering challenges, working with peers and professional experts to design and build solutions that work

<http://www.uvm.edu/~cems/giv/>

VANDERBILT CENTER FOR SCIENCE RESEARCH

From website: The Research Experience for High School Students (formerly Research Internship Program) is an intense, 6-week scientific research internship at Vanderbilt University, centering on full immersion in a Vanderbilt University or Vanderbilt University Medical Center research lab. Students engage in an independent research project under the mentorship of a research faculty member at Vanderbilt.

<http://www.vanderbilt.edu/cso/rehss/>

THE WILLIAMS COLLEGE MATH CAMP

From website: The Williams College Math Camp (WCMC) is a free, ten-day residential math camp for about 20 mathematically gifted high school students who have completed or are currently enrolled in Algebra 2 or its equivalent. Students will be exposed to several different areas of mathematics through colloquia and other activities, but the primary focus of the camp will be Number Theory & The Art of Mathematical Thinking.

Students will learn to explore the theory of numbers by asking thoughtful questions, working out examples, looking for patterns, making conjectures, and finally, proving their results.

<http://sites.williams.edu/mathcamp/>

YOUNG SCHOLARS PROGRAM AT THE UNIVERSITY OF CHICAGO

From website: The Young Scholars Program offers mathematically talented seventh through twelfth graders an opportunity to explore mathematics that are not generally taught in schools. Students are encouraged to engage in active problem solving and are challenged to broaden their understanding of mathematics.

<http://math.uchicago.edu/ysp/>

Military

ACADEMY INTRODUCTION MISSION AT THE UNITED STATES COAST GUARD ACADEMY

From website: It is important that you make an informed decision about applying to and attending the Coast Guard Academy. Our Academy Introduction Mission (AIM) is a one-week summer program that gives you the chance to see if the Academy is right for you, and if you have what it takes to succeed. If you are selected, you will experience the rigor, discipline, and rewards of the Academy, just like a cadet, for a week in July following your junior year in high school.

<http://www.cga.edu/AIM/>

WEST POINT ACADEMY SUMMER LEADERS SEMINAR

From website: The Summer Leaders Experience (SLE) application will open on January 5th, 2015. SLE is highly competitive - there are normally 6,000 applicants and 1,000 attendees. SLE gives high school juniors a week to experience life as a cadet to inform their college selection decision. SLE is a fast-paced program of academic classes, military training, physical fitness training and intramural athletics conducted during the month of June each year. You must have standardized test scores to be considered for SLE.

<http://www.usma.edu/admissions/sitepages/summer.aspx>

SEAP: SCIENCE AND ENGINEERING APPRENTICESHIP PROGRAM

SEAP provides an opportunity for students to participate in research at a Department of Navy (DoN) laboratory during the summer. The goals of SEAP are to encourage participating students to pursue science and engineering careers, to further their education via mentoring by laboratory personnel and their participation in research, and to make them aware of DoN research and technology efforts, which can lead to employment within the DoN. SEAP provided competitive research internships to over 265 high school students this year. Participating students spend eight weeks during the summer doing research at 25 DoN laboratories.

<http://seap.asee.org/>

SUMMER SEMINAR AT THE UNITED STATES AIR FORCE ACADEMY

From website: Summer Seminar at the United States Air Force Academy offers a unique opportunity to get the Academy experience first-hand. Specially designed for high school juniors heading into their senior year, Summer Seminar allows participants to see a realistic slice of cadet life.

<http://www.academyadmissions.com/admissions/outreach-programs/summer-seminar/>

Minority-Focused Programs and Opportunities

AFRICAN AMERICAN SCHOLARS AT NOTRE DAME

From website: African American Scholars at Notre Dame is a week-long seminar that offers outstanding young Catholic African American high school students the opportunity to explore the rich historical, political and spiritual legacy of African American leadership and to enhance their own leadership abilities during one week on the Notre Dame campus. Based on the legacies of African Americans in civil rights, politics, and religion, the seminar seeks to educate and empower participants to produce viable strategies for leadership, and visions of change in their future. Academic experiences are complemented by time for spiritual reflection, personal development, and recreation. All program expenses including round trip transportation to the campus are covered by the University of Notre Dame.

<http://precollege.nd.edu/>

CALTECH YESS PROGRAM

From website: The Young Engineering and Science Scholars (YESS) program at Caltech is a three-week summer residential program for exceptional underrepresented high school students and others who feel they would benefit from the program. The YESS program is designed for students who have a passion for science and engineering and wish to engage in collaborative learning. 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.

<http://yess.caltech.edu/about.html>

CARLETON COLLEGE LIBERAL ARTS EXPERIENCE

From website: The Carleton Liberal Arts Experience (CLAE) will select 50 high school students who have just completed their sophomore year and bring them to Carleton, all expenses paid, for a one-week summer program. The CLAE program introduces the strengths of a liberal arts education through an array of courses in science, art, social sciences, and technology. Students of African American descent or students who have an interest in African American culture are encouraged to apply. Applicants must be college-bound high school students who are current sophomores.

<http://apps.carleton.edu/summer/clae/>

CATALYST ACADEMY AT CORNELL

From website: CATALYST Academy is a one-week summer residential program for rising high school sophomores, juniors, and seniors. The mission of the CATALYST Academy is to advance diversity in engineering and its related disciplines. Therefore, applications from students from backgrounds (African American, Latino/a, or Native American) critically underrepresented in the fields of science, technology, engineering, and math are especially encouraged.

http://www.engineering.cornell.edu/diversity/summer/high_school/catalyst/index.cfm

DARTMOUTH DEBATE INSTITUTE

From website: The DDI is a program for experienced policy debaters with at least a full year of high school policy debate experience. Now in its 32nd year, the DDI has produced national champions at the high school and collegiate level. Most attendees are entering their junior or senior year; it may be appropriate for sophomores with a strong record.

<http://ddidebate.org/aboutddiandddix/>

EDUCATION UNLIMITED PUBLIC SPEAKING CAMP

From website: Education Unlimited is the national leader in providing noncompetitive public speaking summer programs for kids and teens. Education Unlimited was founded in 1993 by a group of speech and debate coaches who developed our innovative curriculum. Today, our curriculum directors and on-site faculty and staff include coaches at some of the nation's premiere high schools and universities and former speech, debate, and mock trial competitors who reached national levels of success.

<https://www.educationunlimited.com/camp/category/5/public-speaking-institute.html>

EDUCATION UNLIMITED - THE AMERICAN LEGAL EXPERIENCE

American Legal Experience offers high school students a unique opportunity to learn public speaking skills through a focus on the American government and judicial system. Two programs are offered: Mock Trial, an intensive "courtroom" program offered at Stanford University, and Leadership and the Law, a seminar in government, law and leadership held in Washington, D.C.

<https://www.educationunlimited.com/camp/category/63/.html>

ENTRADA SCHOLARS PROGRAM AT CALVIN COLLEGE

From website: The Entrada Scholars Program at Calvin College offers racial ethnic minority high school students a gateway to the future: the opportunity to experience college learning and living while earning college credit in English, Biology, History, or Psychology.

<http://www.calvin.edu/offices-services/pre-college-programs/programs/entrada/>

THE HOOP OF LEARNING MEDICAL PROFESSIONS INTERNSHIP PROGRAM

From website: Designed as a pre-college program, the Hoop of Learning promotes career development among Native students. Hoop recruits Native American high school junior and seniors. Students will take college credit health classes at a community college in the morning and participate in an internship at the Phoenix Indian Medical Center in the afternoon. This includes participating in a paid internship program at the Phoenix Indian Medical Center. Students will be involved in hospital activities and the actual care of patients in three areas: dental, surgery and mental health.

www.ihs.gov

INSTITUTE ON ARIZONA LEADERSHIP AND POLITICS

From website: Today's youth are often accused of being uninformed, uninterested and disengaged. But this is decidedly not the case with the students who participate in the JSA Institute on Arizona Leadership and Politics at Arizona State University – Downtown Campus in Phoenix. Students meet with more than 20 key players in state politics over three days including Secretary of State Ken Bennett, Attorney General Tom Horne State, Supreme Court Justice Timmer and State Senate President Andy Biggs. About 40 students from across the state of Arizona get this insider's perspective on state politics and government during the program. The Arizona Institute is supported by the Robidoux Foundation, and is hosted by The Junior Statesmen Foundation.

<http://summer.jsa.org/programs/summer-institutes/arizona-institute-on-leadership-politics/>

JUNIOR STATESMEN SUMMER SCHOOL AND SYMPOSIUM ON POLITICS AND GOVERNMENT

From website: Government “by the people, for the people” requires the informed and engaged participation of its citizens. More than just learning about the issues and forming opinions, people in a healthy democracy get involved and take action. JSA does more than educate students and train them to speak out. JSA challenges students to “be the people” who are actively engaged in making their communities, states and the world a better place. In addition to the Summer School, JSA sponsors Summer Institutes on politics and current issues as well as school year conventions and conferences. The largest student-run organization in the nation, JSA is a non-profit, non-partisan organization providing a one-of-a-kind forum for politics and debate. Founded over 80 years ago by high school students, the JSA program today has had over 500,000 participants from across the

country and the world, and is the world's premiere organization for educating young people on the merits, opportunities, challenges and responsibilities of leading within a democratic society.

<http://summer.jsa.org/about/>

THE LATINO COMMUNITY LEADERSHIP SEMINAR

From website: The Latino Community Leadership Seminar encourages students to explore the role of Latinos in US society through a series of presentations, discussions, and experiences. Students will examine how their values and experiences interact with political, economic, and social realities to produce new avenues for effective Latino leadership. The seminar will develop a strong commitment to community service derived from the values of Latino culture and of the Catholic social tradition. All program expenses including round trip transportation to the campus are covered by the University of Notre Dame.

<http://precollege.nd.edu/>

LEAD PROGRAM

From website: Leadership, Education, and Development (LEAD) is a four-week program introducing youth of diverse backgrounds to key areas of business. First established at Wharton in 1980 and reflecting a long-standing commitment to developing business leaders through business education, the LEAD program has developed a global presence with sister programs hosted at universities around the world.

<https://www.wharton.upenn.edu/pre-college-programs/>

LOTT LEADERSHIP INSTITUTE @ THE UNIVERSITY OF MISSISSIPPI

From website: The Summer Leadership Institute for High School Students is a partnership between the University of Mississippi's Lott Leadership Institute and the Division of Outreach's Summer College for High School Students. The goals of the program are to develop leadership skills in young citizens and prepare them for college. In order to achieve these goals, the Summer Leadership Institute brings together student leaders from across the Southeast to earn college credit on the UM campus and to begin the study of leadership. Included in the program are opportunities to mingle with college administrators, student leaders, and community leaders while participating in current event debates, discussions, and decision-making activities. The program culminates with a one-week trip to Washington, D.C., during which the participants see the federal government in action, hear from national leaders, and tour the nation's Capital. The ideal outcome is for students who complete the program to return to their high schools and put their new skills to work for the betterment of their own schools and communities.

<http://lottinst.olemiss.edu/high-school-students/for-high-school-students/>

MINORITY INTRODUCTION TO ENGINEERING AND SCIENCE PROGRAM AT MIT (MITES)

From website: Minority Introduction to Engineering and Science (MITES) is a rigorous six-week residential academic enrichment program for promising high school seniors – many of whom come from underrepresented or underserved communities – who have a strong academic record and are interested in studying and exploring careers in science and engineering. This national program stresses the value and reward of pursuing advanced technical degrees and careers while developing the skills necessary to achieve success in science and engineering. In 2014, MITES served 72 students hailing from 38 states, Washington, D.C. and Puerto Rico.

<http://oeop.mit.edu/programs/mites/program-details>

(MS)2 : PHILIPS ACADEMY ANDOVER

From website: The (MS)2 program was founded in 1977 to address the compelling need to cultivate the mathematical and scientific abilities of economically disadvantaged African American, Latino, and Native American high school students from targeted cities and communities across the United States. In a residential setting on the historic Phillips Academy campus, the three-summer program challenges students intellectually and exposes them to peers and educators with diverse backgrounds, life experiences, and aspirations. This competitive and rigorous program is free of charge for all students selected.

<http://www.andover.edu/summersessionoutreach/mathscience/pages/default.aspx>

NBA CRUMP LAW CAMP

From website: The National Bar Association Crump Law Camp was established to provide students entering the 9th through 11th grades (ages 14 to 17) with an introduction to the American judicial system. Three other national minority bars—the Hispanic National Bar Association, the Native American Bar Association and the National Asian Pacific Bar Association have generously given their support to the camp as well. By providing incentive, motivation and direction to aspiring law students of color, the National Bar Association Crump Law Camp helps prepare the nation's future lawyers, judges and protectors of the judicial system. For questions regarding the camp, please email valeriedsu@yahoo.com.

http://www.nationalbar.org/NBA/Youthprograms/NBA/Youth_programs.aspx?hkey=ed2d386e-602f-42cb-b707-a26bd33f29f5

NEUBAUER SUMMER SCHOLARS

From website: Students selected will receive a full scholarship to participate in one of two exciting Summer Session courses: Collegiate Writing: The Art of Dreams and Contagion: Infectious Agents and Emerging Diseases. Even if you don't plan to study English or Biology in college, being a Neubauer Summer Scholar is a great way to get an early look at college-level classes and get a feel for life on campus--and to have a ton of fun in the process. You'll spend the morning gaining hands-on experience from teachers who are experts in their fields and in the evening exploring everything summertime Chicago has to offer with your classmates. Thanks to the vision and the generosity of the Neubauer family, top students engaged in Hispanic and Latino communities can now participate in select University of Chicago Summer Session courses free of charge.

<http://summer.uchicago.edu/high-school/neubauer-summer-scholars>

TAKE ACTION! ACADEMIES

From website: The Take Action Leadership Academy is a week-long, social justice-themed summer camp for kids age 9-21, designed to give young people the leadership skills, confidence and peer support to improve not only themselves, but their world. Participants explore pressing global issues, volunteer in the local community and take their place within a worldwide social movement of globally-conscious young people. The camp runs from June 19-25, 2011 and is held at Menlo College in Atherton, CA.

<http://www.metowe.com/leadership/take-action/>

VICTORY BRIEFS INSTITUTE

From website: VBI offers two- and three-week sessions on the campuses of the University of California-Los Angeles and Loyola Marymount University. The curriculum includes lectures, smaller seminars, demonstration and practice rounds, informal discussions and one-on-one sessions with coaches. The institute places students in lab groups of 12 to 15 based upon area of focus and experience level. A novice lab serves boys and girls with no previous Lincoln-Douglas experience. High school debate coaches and former invitational and national tournament champions serve as VBI instructors.

<http://www.collegexpress.com/summer-programs/victory-briefs-institute/3811/>

WAKE FOREST SUMMER DEBATE WORKSHOPS

From website: The Earliest Bird is a workshop for a new era in high school debate. The idea is simple: debaters learn best when they debate challenging opponents in front of quality judges. The Earliest Bird brings those competitors and critics together in a one week intensive camp. Each day of the workshop, debaters will have three full debates and give three rebuttal redos in front of some of the premier judges in high school and college debate. The evidence for the debates will be produced by the national champion Wake Forest University Debate Team and distributed to the Earliest Bird debaters weeks in advance so the workshop can focus on in-round performance.

<http://earliestbird.org/camps>

WASHINGTON WORKSHOPS CONGRESSIONAL INTERNSHIPS

From website: Since 1967, the Workshops Foundation has provided experience-based educational travel programs to highly motivated, academically prepared, and inquisitive groups and individuals from across the United States and the international community. Our programs offer a highly comprehensive understanding of leadership, civic education, domestic and global politics, history and culture. While remaining committed to our strong roots in Washington, DC, the Workshops Foundation continues to broaden its program offerings and unique experiences to other national and international destinations. Programs available include simulations of the U.S. Congress, The U.S Presidency, U.S. Supreme Court (Simulations of the three branches of government – Executive, Legislative, Judicial), Cultural and Human Geography, internships for career exploration,

academically themed seminars, professional development, and person-to-person exchange. Private, nonprofit, and nonpartisan, the Workshops Foundation is based in Washington, D.C., a unique location that allows for our close ties with the officials and organizations capable of making educational experiences in the Capital, around the nation and across the globe a unique, hands-on and empowering.

<https://www.workshops.org/about/our-story>

Pre-College Programs

BOSTON COLLEGE EXPERIENCE

From website: Boston College Experience, a residential college program, is designed to immerse qualified rising high school seniors in BC's richly diverse community during the summer. Throughout BCE's six-week program, students will earn credits in college-level courses from a variety of disciplines, experience life as a BC student, and engage in activities in and around Boston and on BC's campus. These elements comprise a transformative program with a focus on service learning. In other words, you'll learn to change the world through an experience that changes yours.

<http://www.bc.edu/schools/summer/bce/>

COLORADO COLLEGE SUMMER SESSION

From website: On the block plan, you will take one class at a time - immersing yourself and focusing on one subject with a singular intensity. A block class powers through a full semester's worth of content in 3.5 weeks. Classes generally meet from 9am to noon on weekdays (although class times vary by subject and instructor). Plan on spending a good amount of afternoon and evening time reading, writing, preparing for presentations, and collaborating on projects. Science courses often include afternoon labs or field study in addition to morning sessions.

<https://www.coloradocollege.edu/precollege/>

DUKE UNIVERSITY SUMMER ACADEMY FOR HIGH SCHOOL STUDENTS

From website: Summer Academy for High School Students, a three-week, non-credit-bearing program offered by Duke University, attracts students who represent the next generation of leaders from around the world. Immerse yourself in an international experience by enrolling in this elite program designed to provide the academic and residential environment to gain a global perspective on multiple areas of interest for young leaders.

<http://summersession.duke.edu/high-school-students/duke-summer-academy>

DUKE SUMMER COLLEGE FOR HIGH SCHOOL STUDENTS

From website: Get ahead this summer and earn college credit with academically-motivated students from around the world in Duke University's Summer College for High School Students. If you are a current 10th or 11th grade student, you are eligible to apply as early as December 2, 2014. This program, a four-week, credit-bearing program offered by Duke University, attracts students who represent the next generation of leaders from around the world. Immerse yourself in an international college experience by enrolling in this elite program designed to provide the academic and residential environment conducive to collegiate success.

<http://summersession.duke.edu/high-school-students/summer-college-for-high-school-students>

THE EXCEL PROGRAM AT AMHERST COLLEGE

From website: Located in Massachusetts' Pioneer Valley, Amherst College has been committed to the pursuit of academic excellence since its founding in 1821. As a Putney Pre-College student, you spend four hours a day pursuing two areas of interest in small, active seminars. Seminars encourage collaboration and hands-on learning, allowing you to get out of the classroom often for field trips, experiments, performances, college tours, field assignments, and to meet with local experts. Without the pressure of grades or tests, you can enjoy delving into your courses without the stress that comes along with a traditional classroom. Seminars are limited to ten students or fewer. Pre-College Amherst participants hail from all around the United States as well as international destinations. In 2014, Pre-College Amherst welcomed students from 20 different countries.

<https://goputney.com/programs/amherst-college/>

THE GEORGE WASHINGTON UNIVERSITY PRE-COLLEGE PROGRAMS

From website: GW Pre-College provides students with an extraordinary opportunity for an enriching summer experience at a top research institution. Our ten colleges and schools, nearly 100 research centers and institutes, world-class library system, and state-of-the-art technology provide an unparalleled breadth and depth of learning opportunities. High school students benefit tremendously from GW's expertise in global development, international relations, public policy and administration, politics, diplomacy, history, biomedical engineering, museum studies, and the arts. Our top-tier faculty guide, inspire, and empower students through immersive programs that connect academic experience with real-world practice.

<http://precollege.gwu.edu/about>

GEORGETOWN SUMMER COLLEGE

From website: The Summer College at Georgetown University offers high school students a one of a kind experience. With access to more than 80 courses that span across multiple disciplines, you will have the opportunity to live on campus and attend class with Georgetown undergraduate students in one of two five-week sessions. Or take courses in both sessions and earn up to 6 college credits before you graduate high school. This is your chance to experience what life at Georgetown feels like both inside and outside of the classroom.

<http://scs.georgetown.edu/programs/113/summer-college-courses/?subject=HSSS>

HIGH SCHOOL SUMMER SEMINAR PROGRAM AT UNIVERSITY OF CALIFORNIA, IRVINE

From website: Through the UCI Summer Session High School Summer Scholar Program, you will preview and prepare for the challenges and rewards of undergraduate life. You will learn from UCI's distinguished faculty in your academic UCI credit course and study alongside other university students. During the special Program Seminars, you will meet additional faculty, researchers, and industry experts from across the campus through

networking activities and interactive presentations, and enjoy fun social activities where you will meet other Summer Scholars and make new friends.

<http://summer.uci.edu/programs/highschool/>

IN FOCUS SEMINARS AT NORTHWESTERN UNIVERSITY

From website: IN FOCUS Seminars are designed to expose students to top Northwestern faculty highlighting themes relevant today. They do not have the time commitment or cost of a college credit course. These two-week noncredit seminars are structured like a college seminar course. Faculty will lead the seminar through discussion, readings and study, enabling a rich learning experience. Only College Prep students are able to enroll in the seminars, which will appear on your official Northwestern University transcript upon successful completion. If you wish to request credit at your high school for a seminar, discuss this with your counselor ahead of time since the acceptance of credit depends on your school's policy.

<http://sps.northwestern.edu/program-areas/summer/high-school-programs/college-preparation-program/academics.php>

INSIGHT: EXPERIENCE LEARNING IN-DEPTH AND HANDS-ON AT UNIVERSITY OF CHICAGO

From website: Experience a discipline in-depth and hands-on in these intensive three-week courses, as you join experts in their fields in doing what they do. Every course takes advantage of the unique educational opportunities offered by the University and the city of Chicago, taking the material taught in undergraduate-level courses and adding an experiential piece not available in traditionally designed courses. All courses are taught at the undergraduate level.

<http://summer.uchicago.edu/high-school/insight>

THE JOHNS HOPKINS SUMMER UNIVERSITY PROGRAM

From website: The Johns Hopkins Summer University Program offers qualified high school students the opportunity to take freshman- and sophomore-level credit classes in arts and sciences and engineering. The program lasts 5 weeks and residential students must be full-time students and enroll in two classes, for up to seven credits. Commuter students may register part-time (one class) or take the full two-course load. With over 100 courses being offered this summer, your schedule is about choice. Select courses in your desired college major or diversify your interests by selecting a new language or humanities class. Regardless of your choice of courses, Hopkins' Summer University Program connects you with great minds. You have the opportunity to engage in discussions and study with academically talented students and Hopkins' own distinguished faculty.

<http://pages.jh.edu/summer/precollege/summer/index.html>

JULY EXPERIENCE @ DAVIDSON

From website: July Experience is a powerful pre-college summer academic program for rising high school juniors and seniors who are highly motivated, academically oriented, and self-disciplined. It takes place on the campus of Davidson College, one of the nation's very best liberal arts colleges. You will take two liberal arts courses taught by full-time Davidson faculty, live in residence halls with students from across the country and around the world, and participate in sessions about the college admission process, while getting prepared for college. July Experience courses carry no secondary school or college credit; however, a powerful summer academic experience can be a valuable addition to a college application and excellent preparation for college. Need-based scholarships are available.

<http://www.davidson.edu/offices/july-experience>

MARIST PRE-COLLEGE SUMMER PROGRAMS

From website: Attention current sophomores and juniors! Expand your academic and creative aspirations this summer at Marist College. Students entering their junior and senior year of High School as of Summer 2015 are invited to attend one of the Summer Institutes at Marist College - ranked one of the "Best 373 Colleges and Universities," and "25 Most Connected Campuses" by the Princeton Review. You'll learn from experienced professionals and talented faculty, while spending two to four weeks in your choice of location: the heart of the historic Hudson River Valley, the birthplace of the Renaissance, or both! You'll have several class sessions each day mixed with time to study, local excursions, day-long field trips and, of course, recreation. Living in dorms, eating in the cafeteria, studying in the state-of-the-art academic facilities, and enjoying either of the beautiful Marist campuses will provide you with a well-rounded college experience. Programs include: Italian, Studio Art, Business, Criminal Justice, Fashion, Sports Commentary, and Pre-Law.

<http://www.marist.edu/summerinstitutes/programs.html>

RESEARCH MENTORSHIP PROGRAM AT UCSB

From website: RMP is a competitive, six-week summer program that engages qualified, high-achieving high school students from all over the world in interdisciplinary, hands-on, university-level research. Students will be paired up with a mentor (graduate student, postdoc, or faculty) and choose a research project from a large list of disciplines offered by the program each year. In addition to gaining a deep relationship with their mentor, they will learn about research techniques, gain insight into professional research-based opportunities, and mature their academic goals. The lecture series - GRIT talks - will connect students to some of the best minds among the UCSB research community who present on their ground-breaking research and innovative technology. Along with these academic benefits, the students will be immersed in university life and networked with equally ambitious and curious peers.

<http://summer.ucsb.edu/public/category/programArea.do?method=load&selectedProgramAreaId=10251&leftNav=true>

SUMMER @ CAL LUTHERAN

From website: Summer at CLU for High School Students is an opportunity for those who qualify to get a head start on college and a preview of what classes are like at the next level.

<https://earth.callutheran.edu/summer/high-school/>

SUMMER DISCOVERY

From Summer Discovery in pre-college enrichment, middle school enrichment, community service and career focused internship programs. The program, run by the Musiker family, has directed award-winning, well supervised, educational teen summer programs for students for 47 years. Although the company offers a wide variety of quality programs around the world, to this day, it is still a family-owned and operated organization. Program options include studying at universities such as UCLA, University of Texas at Austin, Johns Hopkins, and Penn. Summer Discovery also has study abroad options in Italy and English.

<http://www.summerdiscovery.com/>

SUMMER SCHOLARS PROGRAM AT NOTRE DAME UNIVERSITY

From website: Summer Scholars participants spend two intense weeks in one of the programs offered--from archeology to psychology to Shakespearean performance. Each class is limited to 20 students, keeping the classes small and the personal attention from Notre Dame faculty high. The coursework is both rigorous and rewarding. Students will complete work for their track outside designated class times, as they would in any college setting. Yet there is ample time to enjoy the social facets of college life, especially those unique to Notre Dame. Our participants praise the program for its capacity to bring them out of their comfort zone with challenging academics, as well as inspire and excite them by providing a taste of what college life can be in all aspects. Students are eligible to receive one college credit upon completion of a program track.

<http://precollege.nd.edu/summer-scholars/>

SUMMER SCHOLARS PROGRAM AT TEMPLETON HONORS COLLEGE (EASTERN UNIV.)

From website: The Summer Scholars Program is designed for intelligent, gifted young men and women who aim to become not just successful employees, but fully human persons, as God intended. More specifically, this is an opportunity to sample a special kind of education—a kind that aspires not only to prepare its students for prosperous careers, but to investigate the meaning of a truly good life: a life of honest self-examination, delighting in what is True, Good, Beautiful, and formation into the image of Jesus Christ. For nine days students will live in residence on Eastern University's campus with a limited group of peers, engaged in rigorous, college-level academics taught by Templeton's own doctorate-certified professors. Students will enjoy one-to-one writing tutorials, guest speakers, a trip to Philadelphia or NYC, cultural events, and all this alongside a team of current Templeton students serving as their guides and mentors. Students will be awarded 3 college credits upon completion of this program (transferable to other colleges and universities). Courses have included classical authors such as Plato, Aristotle, Roman authors, Milton, Dante, and C.S. Lewis.

<http://templetonhonorscollege.com/summer>

UCONN MENTOR CONNECTION

From website: UConn Mentor Connection is a residential enrichment program held during the summer on the Storrs campus of the University of Connecticut, serving students entering the last two years of high school. The program is designed to provide rising juniors and seniors from diverse backgrounds with opportunities to participate in high-level creative projects and research investigations under the supervision of university mentors. Accomplished university professors and/or advanced graduate students host participants in their labs and studios and work with them on projects in shared areas of interest. Students and mentors become a community of scholars working together on important issues on the cutting edge of various fields of study. The mentorship experience allows high school students to take on the role of practicing professionals, experience real-world research and/or creative projects, enhance their awareness of their talent areas and career opportunities, and interact with students who share common areas of interest. College credit is an option at most mentorship sites.

<http://mentor.education.uconn.edu/>

Social Justice

GLOBAL ISSUES: TOWARDS A JUST PEACE AT NOTRE DAME UNIVERSITY

From website: Global Issues: Towards a Just Peace Seminar is based on the premise that the problems facing the world in the 21st century—from climate change, resource wars, and ethnic and religious conflict to poverty, discrimination and human rights — cannot be addressed by any one nation, religion, academic discipline or social movement, but by collaboration across boundaries of all kinds. How are these problems interwoven, and how can we craft workable solutions to them? How can actors (individuals, movements and institutions) from religious and secular communities, developed and developing worlds, science and the arts, politics and economics work together to address these complexities with compassion and creativity? And what is Notre Dame’s role in such collaboration? With the help of Notre Dame faculty from several disciplines, we will explore these knotty questions together and sketch some ways forward.

<http://precollege.nd.edu/leadership-seminars/global-issues---toward-a-just-peace/>

MLK YOUNG LEADERS AT CALVIN COLLEGE

From website: Participants will spend 3 days living on Calvin’s campus with an approved Calvin student host. In addition, they will participate in a featured workshops, seminars, a community Service-Learning project, dorm life, campus fun, an inspirational movie, discussions, and our annual Martin Luther King March on campus. And, at the completion of the program, parents are invited to join our staff in celebrating our young leaders in our celebration reception. If a student is interested in bettering their community, themselves, and developing their leadership skills, then the MLK Weekend program is for them. 9th – 12th graders of all ethnic backgrounds are welcome to apply to this program.

<http://www.calvin.edu/offices-services/pre-college-programs/programs/mlk/>

SOCIAL JUSTICE INTENSIVE

From website: This summer, immerse yourself in the study of social justice at Sarah Lawrence College. The social justice intensive provides students theoretical, historical, and present day perspectives on issues such as economics, gender, sexuality, and race. Students will learn, discuss, and then apply their knowledge of the issues in a project of their own conception and design, guided by members of Sarah Lawrence’s award winning faculty.

<https://www.sarahlawrence.edu/ce/summer/>

Unique Opportunities

BOSTON ARCHITECTURAL COLLEGE (BAC) HIGH SCHOOL SUMMER ACADEMY

From website: Summer Academy has been part of the Boston Architectural College (BAC) curriculum since 1973. Our design exploration program is open to all high school students entering grades 10 and above. High school students attending Summer Academy during the month of July work in small studio teams building design skills in freehand sketching, perspective drawing and collage, model-making, mapping, and diagramming as they explore creative solutions to architectural problems at the scale of the body, the building, and the city. Everyone is challenged to think critically and communicate their creative design ideas to others. By making physical models, ideas are tested and teamwork is encouraged. During the course of the month, Summer Academy students expand their understanding of the impact of design around them and learn about the ways design can change communities and improve lives. As a student in the program, you will leave Summer Academy with new skills in design thinking that are applicable to many problems and types of work you may encounter whether you choose to concentrate in a design field or another area of study.

<http://www.the-bac.edu/education-programs/summer-academy/sa-about-the-program->

CALIFORNIA POLYTECHNIC UNIVERSITY ARCHITECTURE SUMMER CAREER WORKSHOP

From website: The Architecture Department offers an intensive 4-week in-residence workshop designed for high school students considering architecture as a career or developing a design portfolio. The Workshop provides an in-depth view of the career through hands-on experience in studio design exercises, lectures, projects and field trips. Activities cover architectural design and history, computer applications, building science, structural engineering and site planning. Studios and lectures are taught by the faculty of the College of Architecture and Environmental Design. Education and career advising are integral elements of the program. Participating students live in residence halls where they become familiar with the dynamics of campus life. The program typically runs mid-June - mid July, and includes lodging, most meals, field trips and most materials.

<http://www.architecture.calpoly.edu/about/summer-career>

DIGIPEN INSTITUTE OF TECHNOLOGY SUMMER WORKSHOP

From website: ProjectFUN's Summer Programs offer exciting learning experiences for students of all ages. These courses introduce students to a variety of fun and engaging topics in video game programming, fine arts and multimedia production, game design, and engineering — all while reinforcing their knowledge of core academic subjects like math, physics, art, and writing. Students learn and create under the guidance of ProjectFUN's talented teaching staff, working alongside other students in their age group to complete hands-on projects that reinforce key concepts and encourage personal expression.

<https://projectfun.digipen.edu/summer-programs/>

THE LEON LEVY EXPEDITION TO ASHKELON

From website: The Leon Levy Expedition has been conducting large-scale excavations on the tale of ancient Ashkelon since 1985, thanks to the great generosity of Mr. Leon Levy and Ms. Shelby White of New York. Every summer from 1985 to 2000, Leon and Shelby visited Ashkelon during the excavation season, taking the trouble to meet the expedition staff and often working with dig volunteers and professional staff in the field. Whether you are studying archaeology, pursuing a career in the field or are looking for a fun and educational way to spend your summer, the Leon Levy Expedition to Ashkelon offers a well-rounded archaeology field school well suited to a variety of interests.

<http://digashkelon.com/expedition/>

SAMBERG FAMILY HISTORY PROGRAM

From website: The Samberg Family History Program will engage you in a multi-faceted exploration of Jewish history and your family's past. We draw upon all of the resources at the Center for Jewish History: our world-renowned collections of books, archival documents, photographs, artifacts, paintings, films, sound recordings, and textiles; our expert curators, archivists, and librarians; our technology offerings, knowledgeable historians, and caring educators. Based in the heart of New York City, we also take great advantage of our city's myriad important research institutions and historic sites. Working with expert teachers, scholars, archivists, curators, and genealogists, you will learn the skills you need to mine evidence of the past to answer your own questions: reading official records, letters, personal mementos, photographs, and material objects, and conducting and using oral interviews. We also recognize, though, that teachers are not the only ones with knowledge; all of us in the Samberg Program are both learners and teachers. We encourage discussion, debate, and collaboration.

<http://www.cjh.org/p/63#application>

SMITHSONIAN NATIONAL POSTAL MUSEUM INTERNSHIP

From website: Want to gain valuable skills and experience working in a museum? Apply for a Postal Museum Internship at the Smithsonian! Work on a relevant project, get one-on-one mentorship from staff, and they contribute to the museum's offerings. National Postal Museum Internships are based in the Collections, Curatorial, Education, Exhibits, and Library Departments, are offered during the spring, summer and fall semesters on a rolling basis. Please be aware that the internship does not offer a stipend.

<http://postalmuseum.si.edu/get-involved/internships.html>

THOREAU COUNTRY TODAY: A SUMMER SOJOURN

From website: This eight day program is designed for students to learn and discuss how enduring and relevant Thoreau's greatest ideas are today. Students will enjoy the comfort and support of this homestay program at historic Concord, Massachusetts. Mornings students will gather at various indoor and outdoor locations to explore Thoreau's notion of "living deliberately" and how it may be applied to the challenges of life in the 21st

century. Afternoons and two evenings will be spent seeing Walden Pond, Cambridge and Harvard University, Beacon Hill and other spots that help to identify Greater Boston as a center for ideas, music, art, and discovery.

<http://www.thoreausociety.org/>

Useful Websites About Community Service and Jobs

www.teens4hire.org

From website: Teens4Hire® is an online member community of teens (14 and older) seeking jobs; full-time, part-time, summer, seasonal, intern or volunteer, work experience; and/or other ways to earn money & the organizations that want to reach them.

www.coolworks.com

From website: Summer jobs and Seasonal jobs in National Parks, Ski Resorts, Ranches, Camps and Cruise Ships and other Great Places.

www.getthatgig.com

From website: Extraordinary careers, internships, and part-time jobs, and the people who have them and how to get them!

www.transitionsabroad.com

From website: TransitionsAbroad.com is the travel guide to paid work, study, living and volunteering abroad. Providing inspiration and practical information since 1977.

www.groovejob.com

From website: The #1 site for part-time employment. Search thousands of hourly and part time jobs, jobs for teens and students, summer and seasonal jobs.

www.snagajob.com

From website: Snagajob is a job search engine website. Founded in 2000 and headquartered in Richmond, Va., Snagajob has been named to both Fortune Magazine's "Great Place to Work."

www.studentjobs.gov

From website: Portal to a range of employment opportunities within the Federal Government.

www.vault.com

From website: Career information web site, providing employee surveys of top employers, career advice, job listings, and career guides to individual industries.

<http://people.rit.edu/gtfsbi/Symp/highschool.htm>

Many co-op/internship opportunities for high school students listed here.

Self-Guided Summer

BUNIVERSE

Go onto Boston University's website to take classes, listen to lectures, and exponentially learn about an array of topics.

<http://www.bu.edu/buniverse/>

CATAPULT ENGINEERING ACADEMY

From Auburn University's website: CEA is an online, college-prep high school engineering curriculum developed and taught by Dr. Mark Conner. Dr. Conner is a mechanical engineer who has been teaching high school since 1996 and has 10 years' experience teaching undergraduate engineering courses. The curriculum is designed to mirror the first two years of collegiate engineering, in order to prepare students for the rigor of undergraduate engineering degree programs and provide them with the knowledge, training, and tools to excel as undergraduate engineering students. Learn more about Catapult Engineering Academy and register for courses at catapultea.com.

EDUCATION-PORTAL.COM

From website: Our courses are engaging video summaries of textbook material. They are a fast, effective way to study for any subject and be better prepared for your next test. The lessons are short and concise, with lots of examples to help you master the material quickly.

<http://study.com/academy/plans.html>

MIT OPENCOURSEWARE

From website: Offering a portfolio of free MIT courses to a virtual community of learners around the world. Part of edX.

ocw.mit.edu/

OER COMMONS

From website: Worldwide learning network of shared teaching and learning materials made freely available online.

<https://www.oercommons.org/>

ONLINE EDUCATION DATABASE PUBLIC LECTURES AT PRINCETON

From website: Public Lectures at Princeton provides free and open access to a selection of lectures taught by distinguished teachers and scholars at Princeton University.

lectures.princeton.edu/

OPEN COURSES YALE

From website: Open Yale Courses provides free and open access to a selection of introductory courses taught by distinguished teachers and scholars at Yale University.

oyc.yale.edu/

OPENSTAX

From website: OpenStax believes that everyone has something to learn, and everyone has something to teach. Frustrated by the limitations of traditional textbooks and courses, Dr. Richard Baraniuk founded OpenStax (then Connexions) in 1999 at Rice University to provide authors and learners with an open space where they can share and freely adapt educational materials such as courses, books, and reports. Today, OpenStax CNX is a dynamic non-profit digital ecosystem serving millions of users per month in the delivery of educational content to improve learning outcomes. There are tens of thousands of learning objects, called pages, that are organized into thousands of textbook-style books in a host of disciplines, all easily accessible online and downloadable to almost any device, anywhere, anytime.

<https://cnx.org/about>

STANFORD EPGY AND PODCASTS

From website: EPGY is an ongoing research project at Stanford University dedicated to developing computer-based multimedia courses in Mathematics, Physics, English, Computer Programming and other subjects. EPGY makes these privately available to students of high ability, and offers courses suitable for students of all ability levels through schools.

<http://epgy.stanford.edu/about-us>

TED.COM

From website: TED is a nonprofit devoted to spreading ideas, usually in the form of short, powerful talks (18 minutes or less). TED began in 1984 as a conference where Technology, Entertainment and Design converged, and today covers almost all topics — from science to business to global issues — in more than 100 languages. Meanwhile, independently run TEDx events help share ideas in communities around the world.

Ted.com

THE TEACHING COMPANY: THE GREAT COURSES

From website: We are proud to be partners with National Geographic, The Culinary Institute of America, and the Smithsonian. Together we are creating illuminating courses that bring you the best in lifelong learning.

<http://www.thegreatcourses.com/>

Self-Guided Tours

INTERNATIONAL SEMINAR SERIES: SERVICE LEARNING IN PARIS

LANDMARK VOLUNTEERS

THE STUDENT CONSERVATION ASSOCIATION

From website: From Rocky Mountain National Park to the Cumberland Island National Seashore, from Amistad National Recreation Area to the Blue Ridge Parkway public lands across the United States are in need of a little TLC. SCA's National Crews offer you a chance to visit places you've never seen before, camping with your crew members in the field to enjoy nature at its best. You'll be building trails, conserving vital habitats, and protecting natural resources for future generations. National Crews will also set you on the path to other SCA opportunities, like Trail Corps and Conservation Internships.

<http://www.thesca.org/serve/national-crews>

VISIONS SERVICE ADVENTURE

From website: Known as "The Last Frontier," Alaska has a coastline longer than all other states combined, it possesses more than half the world's glaciers and active volcanoes, and it's home to wilderness and snowcapped mountains that stretch to the horizon. VISIONS Alaska is based in a small Athabasca native village, where we work with community members on service projects that focus on local infrastructure and housing. We also take advantage of the spectacular surroundings with ice climbing, backpacking, and community explorations.

<http://www.visionsserviceadventures.com/teen-summer-programs/alaska>

Study Abroad

BERKLEE SPAIN SUMMER PERFORMANCE PROGRAM

From website: The Spain Summer Performance Program takes place at Berklee's campus in Valencia, Spain. The program will provide musicians with two weeks of comprehensive music performance instruction. You'll improve your performance, theory, production, and technology skills; spend time in our state-of-the-art recording studios; and learn and network in a multicultural environment.

<https://www.berklee.edu/summer/programs/spain>

CHOATE SUMMER STUDY ABROAD

From website: Stimulating courses are taught by native speakers in some of the world's most historically significant cities in China, France, Oman, or Spain. There are numerous excursions to museums, cultural centers, and historic sites, and students have the chance to have multi-week homestays with host families or at host institutions. Programs led and taught by Choate teachers, and students have the opportunity to accelerate as much as one year in language depending on their degree of improvement.

<http://www.choate.edu/page.cfm?p=622>

HILLSDALE HIGH SCHOOL STUDY ABROAD

From website: Rising high school juniors, seniors, and talented sophomores are invited to study with Hillsdale faculty in one of three European study abroad courses offering three undergraduate college credits. Courses are focused in the fields of English, history, and classics, but are open to students of any future academic interest. England, France, and Italy are final course destinations.

<http://www.hillsdale.edu/admissions/high-school>

ROME: HISTORY, CULTURE, AND EXPERIENCE.

From website: This 12-day seminar will introduce students to the history and culture of the Eternal City, with a focus on the built environment. Notre Dame faculty in a range of fields, from art history and architecture to anthropology, will provide students with an immersive experience and guide students in their exploration of this fascinating city. Students will have the opportunity to visit many of Italy's most revered cultural treasures and participate in rich cultural and intellectual exchange. The newly renovated Notre Dame Rome Global Gateway on Via Ostilia, which is a stone's throw from the Colosseum, will serve as the home for lectures and discussions, while the city itself, with its rich assortment of monuments, museums and densely-textured, storied neighborhoods will serve as the students' true classroom. Students, along with Notre Dame Pre-College resident counselors and staff, will be the exclusive guests at a campus residence just a short walk from the Notre Dame Rome Global Gateway and near Piazza San Giovanni in Laterano, Rome. Students are eligible to receive one college credit upon completion of the program. The program is limited to 20 students who will be rising high school seniors by the time of the program.

<http://precollege.nd.edu/study-abroad/>

TRAVEL ACADEMY AT THE UNIVERSITY OF CHICAGO : EXPLORING THE CLASSICAL WORLD THROUGH GREEK DRAMA

From website: This unique interdisciplinary humanities course takes students to Greece where they have the extraordinary opportunity to study ancient Greek drama in its literary and social contexts. A series of excursions to sites related to the works they read, both within and outside Athens, supplement the core of the program on the island of Spetses.

<http://summer.uchicago.edu/high-school/traveling-academy>

Local Volunteer Opportunities¹

ALZHEIMER'S ASSOCIATION-DESERT SOUTHWEST CHAPTER

Activities and Needs: Assist individuals and families affected by Alzheimer's disease and to advance research leading to a world without Alzheimer's. Need Helpline volunteers, community education volunteers (attend community events and health fairs), help with mailings, clerical and office, data entry, pre-event, special events and committee work. Minimum age for volunteers is 16. Contact Ms. Cindy Vargo for more information.

Organization Address: 1028 E. McDowell Road, Phoenix, AZ 85006

Phone: 602-528-0545

Web: www.alzdsw.org

AMERICAN CANCER SOCIETY

Activities and Needs: National community based organization dedicated to preventing cancer, saving lives, research, education, advocacy and service. Minimum age for volunteers is 16, or one can volunteer at age 12 with an adult. Contact Mrs. Lisa Carlborg (lisa.carlborg2@cancer.org) for more information.

Organization Address: 4550 East Bell Road 126, Phoenix, AZ 85032

Phone: 602.224.0524

Web: www.cancer.org

AMERICAN RED CROSS-GRAND CANYON CHAPTER

Activities and Needs: Assist families who lost their homes to fires, help families communicate with relatives in the military, transporting the elderly, low-income or disabled as well as educational programs. Need volunteers for all areas, including call centers. Minimum age for volunteers is 16. For more information, please email volunteer@arizonaredcross.org

Organization Address: 6135 N. Black Canyon Hwy, Phoenix, AZ 85015-6660

Phone: 602-347-6522

Web: www.arizonaredcross.org

ARIZONA RECREATION CENTER FOR HANDICAPPED

Activities and Needs: Drop-in activities/classes for people with special needs. Minimum age for volunteers is 15.

Organization Address: 1550 W. Colter, Phoenix, AZ 85015

¹Medical volunteer information gathered from Midwestern University's website, <https://www.midwestern.edu/glendale-campus/summer-opportunities.html>

Phone: 602-230-2226
Web: www.archaz.org

ARROWHEAD HOSPITAL

Explore many opportunities for working in virtually all areas of the hospital, from delivering mail to patient care. Be sure to visit the website to obtain the application; the deadline usually is in late March for applicants. Please be aware that Arrowhead Hospital asks for a 6 month commitment from the volunteer. Minimum age for volunteers is 14. Contact Ms. Sandy Chilese (arrowheadvolunteers@abrazohealth.com) for more information.

Organization Address: 18701 N. 67th Ave., Glendale, AZ 85308-7101

Phone: 623-561-7232

Web: www.arrowheadhospital.com

ARTHRITIS FOUNDATION

Activities and Needs: Public education, disease management programs, exercise (water & land based) programs, health fairs, special event fundraisers (golf tournaments, galas, etc.) Volunteers are also needed for in-office assistance and special events and aquatic & arthritis management instructors. Minimum age for volunteers is 16. Contact Ms. Taren Norley (tnorley@arthritis.org) for more information.

Organization Address: 1221 E. Osborn, Ste. 201, Phoenix 85014

Phone: 602-264-7679

Web: www.arthritis.org

BANNER THUNDERBIRD MEDICAL CENTER

Activities and Needs: Volunteers provide comfort and caring, and assist our hospital staff in providing a positive experience for our patients. We have opportunities for teens (minimum age for volunteers is 14) and adults in both clinical and non-clinical settings. Please be aware that there is a commitment of at least six months of service and a minimum of four hours a week. Contact Kathy Lane or Barbara Peten (kathy.lane@bannerhealth.com or barb.peten@bannerhealth.com) for more information.

Organization Address: 5555 W. Thunderbird Rd., Glendale, AZ 85306

Phone: (602) 865-5760

Web: www.bannerhealth.com/Giving+Back/Become+a+Volunteer/_Volunteer.htm

BANNER VOLUNTEER SERVICES AT BOSWELL HOSPITAL

Activities and Needs: A wide variety of opportunities related to health and medicine awaits any volunteer who would like to help the hospital. Boswell has over 250 volunteer assignments and places volunteers in

assignments of interest to them. Minimum age for volunteers is 14. Applications are accepted beginning in March for the summer opportunities.

Organization Address: 10401 West Thunderbird Blvd., Sun City, AZ 85351

Phone: Boswell - (623) 876-5387

Web: www.bannerhealth.com

BRAVERY PROJECT

From website: Many artists desire to make a difference with their art, whether the distinction is to create a new and unique style, to make a social statement, or to merely shock people into the subjective world of the artist's ideas. At Bravery Project, Inc., we propose to make a difference as well by creating a symbiotic relationship between our organization and the organizations working with domestic violence survivors. We help by utilizing creative portrait works as a catalyst for awareness and fundraising. Contact Vickie Florschuetz (480-785-4995) for more information.

<http://braveryproject.org>

EPILEPSY FOUNDATION OF ARIZONA

Activities and Needs: Education, support, research and advocate for people affected by seizure disorders. Volunteers for all categories including summer camps. Minimum age for volunteers is 16. Be sure to contact Kate Burns (efaz@chw.edu) to request an application.

Organization Address: 240 W. Thomas Rd, Phoenix, AZ 85013

Phone: 602-406-3581

Web: www.epilepsyfoundation.org/arizona

FREE ARTS ARIZONA

From website: Free Arts for Abused Children of Arizona is a nonprofit organization that brings the healing powers of the creative arts to abused, neglected and homeless children by partnering with over 100 group homes, treatment centers and shelters in Maricopa County. By recruiting creative volunteers to share their talents in the visual arts, music, theater, dance, creative writing and other artistic projects, Free Arts helps children build self-esteem by unlocking their imaginations.

<http://www.freeartsaz.org/about>

HABITAT FOR HUMANITY IN CENTRAL ARIZONA

From website: We are seeking individuals of all skill levels and areas of interest. Whether you are interested in home construction, home repair, office work, helping out at the ReStore, or serving on a committee, we have a place for you. All new volunteers are required to attend a new volunteer orientation learn more about opportunities involving home constructing, office work, hospitality, and events.

<http://habitatcaz.org/volunteer/individual/>

HANDS-ON GREATER PHOENIX

From website: HandsOn Greater Phoenix is a nonprofit volunteer management organization. We address critical community needs in the Phoenix metropolitan area by coordinating a variety of volunteer projects and programs. Our volunteers come from all walks of life and include individuals, families, students, retirees, corporations, and others. We partner with a wide range of community service organizations and government agencies to tackle issues like homelessness, hunger, education, animal welfare, environmental challenges, and so much more. Whether you're interested in one-time volunteer opportunities like our calendar projects, making a commitment to one of our long-term programs, or helping out at one of our four annual service days, HandsOn Greater Phoenix has a way for YOU to give back to your community.

<http://www.handsonphoenix.org/>

JOHN C. LINCOLN HOSPITAL - DEER VALLEY

Activities and Needs: The hospital needs volunteers for the public information desk, for the gift shops, extended care center, children's community health services, adult day care center, clerical support center, nursing units, patient hospitality, and other locations inside the hospital. Minimum age for volunteers is 14. Please email dvviolu@jcl.com or volunteers@jcl.com for more information.

Organization Address: 19829 N. 27th Ave., Phoenix, AZ 85027

Phone: 623-879-5765

Web: www.jcl.com (follow the tab to volunteer applications)

MARCH OF DIMES, ARIZONA CHAPTER

Activities and Needs: March of Dimes researchers, volunteers, educators, outreach workers and advocates work together to give all babies a fighting chance against pre-maturity, birth defects and low birth weight. Volunteer needs range from serving on committees for major fundraisers to lending a helping hand with various office projects, such as mailings and database updates. Hours are flexible, and the minimum age for volunteers is 14. E-mail az601@marchofdimes.com with any questions.

Organization Address: 3550 N. Central Avenue, Suite 610 Phoenix, AZ 85012

Phone: 602-266-9933

Web: www.marchofdimes.com

PHOENIX SISTER CITIES YOUTH AMBASSADOR EXCHANGE PROGRAM

From website: Phoenix high school sophomores and juniors apply to be selected to serve as a Youth Ambassador to one of Phoenix's ten Sister Cities. Upon selection the Youth Ambassadors will participate in Academy Sessions where they not only learn how to interact in their host country and what they can expect, but

also how to best represent Phoenix, the state of Arizona, and the United States abroad. Prior to the exchange, Youth Ambassadors will also participate in fundraising events. Each Youth Ambassador will depart in the summer to spend approximately three weeks in the Sister City they are assigned. They will live with a host family and an international counterpart where they will be fully immersed in the culture of the Sister City. While abroad, Youth Ambassadors can expect an eye-opening experience learning all about the Sister City, their international counterpart, and themselves.

<https://www.phoenixsistercities.org/index.php/about-us-65/summary>

SOUTHWEST CENTER FOR HIV/AIDS

Activities and Needs: Volunteers provide the community with the knowledge, resources and collective strength necessary for individuals to live long and well with HIV. Minimum age for volunteers is age 16. For more information, contact Harold Jeffers (volunteer@swhiv.org)

Organization Address: 1144 E. McDowell Rd., Ste. 200, Phoenix, AZ 85006

Phone: 602-307-5330 x2219

Web: www.swhiv.org

TEENS IN NURSING: HOSPICE OF THE VALLEY

Activities and Needs: Volunteers provide one-on-one companionship to hospice patients, assist with varying duties in inpatient unit setting. Please note that this volunteering requires a commitment of at least twelve months of service and two hours per week. Minimum age for volunteers is 14.

Organization Address: 1510 E. Flower Street, Phoenix, AZ 85014

Phone: 602-636-6336

Web: www.hov.org (follow the link to teen volunteer section)

JUNIOR VOLUNTEER PROGRAM AT ST. JOSEPH MEDICAL CENTER

Activities and Needs: Open to all high school students ages 14 and over, this summer program, usually held in mid-June, is designed for students interested in careers in healthcare. The program will provide services in same-day surgery, transport, IT, pediatrics and the business office. This selective program will also include interviews for the candidates. Please visit St. Joseph's website to find out when applications are due and when interviews will be held.

Organization Address: 350 W. Thomas Road, Phoenix, AZ 85013

Phone: 602-406-3020

Web: www.stjosephs-phx.org/index.htm

JUNIOR VOLUNTEER PROGRAM AT MARICOPA INTEGRATED HEALTH SYSTEM

Activities and Needs: Volunteers needed in guest relations, clinic, administration, and to distribute patient reading materials, assist in office & work with children/newborns, plus more. Volunteers can work in 12 Family Health Centers, from Mesa to Avondale. Minimum age for volunteers is 14. Email Sandra Munoz (volunteers@mihs.org) with questions about your application. Deadline is in late May.

Organization Address: 2601 E. Roosevelt, Phoenix, AZ 85008

Phone: 602-344-5348

Web: www.mihs.org

MARYVALE HOSPITAL MEDICAL CENTER

Activities and Needs: Volunteers are the Ambassadors of Giving and one of MHMC's greatest resources. Volunteers donate their time and skills in various areas throughout their community of care. Minimum age for volunteers is 14. Visit the website to fill out a volunteer application.

Organization Address: 5102 W. Campbell, Phoenix, AZ 85031

Phone: 623-848-5227

Web: www.maryvalehospital.com

PEORIA DIAMOND CLUB

From website: The Peoria Diamond Club is a non-profit organization whose volunteers participate in the daily operation of the Seattle Mariners and San Diego Padres Spring Training at the Peoria Sports Complex in Peoria, Arizona. In addition to Spring Training, the Diamond Club hosts special events and programs throughout the year to benefit local, youth charities.

<http://www.peoriadiamondclub.org/>

SPECIAL OLYMPICS ARIZONA

Activities and Needs: The SPECIAL OLYMPICS ARIZONA sports' competitions occur all over the county for people ages 8-80 who have mental retardation. This organization needs volunteers for Special Events. They have 8 events during the year. Minimum age for volunteers is 13. Contact Kali Knaack (kali@specialolympicsarizona.org) for more information.

Organization Address: 1850 N. Central Ave. Suite 900, Phoenix, AZ 85004

Phone: 602-230-0075

Web: www.specialolympicsarizona.org/

SUMMER INTENSIVE VOLUNTEER PROGRAM AT PHOENIX CHILDREN'S HOSPITAL

This summer program for teens introduces students to the healthcare setting. Students will complete 100 hours of service in four (3-4 hour) shifts per week, and the hospital requires that commitment. Minimum age for volunteers is 16. Email the Hospital at atapia@phoenixchildrens.com or dwhitney@phoenixchildrens.com for an application.

Organization Address: 1919 E. Thomas Road, Phoenix, AZ 85016

Phone: 602-546-0269

Web: www.phxchildrens.com

RONALD MCDONALD HOUSE OF PHOENIX

Activities and Needs: Ronald McDonald House provides housing for families who must travel to Phoenix for medical treatment for their children. House volunteers work 3-hour shifts helping to maintain the House and grounds. There is also a dinner program that a student could do as a group activity with classmates (10 people or less) where they would prepare & serve dinners for families. Community Service also includes deep cleaning rooms. Minimum age for volunteers is 16. Contact Nate Harat for more information.

Organization Address: 501 East Roanoke, Phoenix, AZ 85004

Phone: 602-633-2030

Web: www.rmhcphoenix.com

UNDERDOG RESCUE OF ARIZONA

From website: Underdog Rescue of Arizona is a 501(c)(3) non-profit foster-based dog rescue dedicated to rescuing and re-homing shelter dogs rescued from the euthanasia list and abandoned dogs in need. We are based in the Phoenix East Valley. We are funded by members and others' donations. In addition, we are an advocacy group, striving to educate the public on the issue of animal welfare. Contact Nikki Steele (480-553-9311) for more information.

<http://www.underdogaz.com/>

UNITED BLOOD SERVICES

Activities and Needs: Donor center and mobile hosts/hostesses, hospital services, drivers, assist on blood drives, make phone calls to previous donors, assist on ASU campus blood drives, clerical, and mailings. Contact Ms. Jane Tellier (pr@bloodsystems.org) for more information. Minimum age for volunteers is 12 with parental supervision.

Organization Address: 6220 E. Oak St., Scottsdale, AZ 85257

Mailing Address: P.O. Box 1867, Scottsdale, AZ 85252-1867

Phone: 877-827-4376

Web: <http://www.unitedbloodservices.org/>

VALLEY OF THE SUN UNITED WAY

From website: United Way is the largest investor in health and human services in the Valley. With the support of more than 90,000 individual donors, 700 business supporters, and a wide array of volunteers and partners, we effectively create change on two levels: We drive systemic change that impacts entire communities, and we transform individual lives every day. Together, we'll build a stronger community for us all to live, work and raise our families.

<http://www.vsuw.org/about-us/>

ZOOTEENS AT THE PHOENIX ZOO

From website: ZooTeens are a group of 14 – 17 year olds interested in animals, nature and conservation who volunteer their time to the Phoenix Zoo. ZooTeens share their interests with our Zoo Guests at a variety of interpretive stations throughout the Zoo, provide mentoring and educational opportunities to Camp Zoo participants, and are eligible to work with and learn from our world-class animal keepers. Teens must be age 14 to 17 as of September 1 of the application year. After following the application process and being selected, they are required to volunteer a minimum of 40 hours during the ZooTeen season, undergo yearly TB testing and attend all required orientations and meetings to retain their ZooTeen status.

<http://phoenixzoo.org/camps-programs/teen-programs/zoo-teens/>

Competitions, Contests, and Awards

International Writing and Photo Contest, and Blogging Competition

From website: Currently enrolled high school students, including Quill and Scroll members and non-members, are invited to enter the 2015 International Writing and Photo Contest and Blogging Competition. Award divisions include writing (features, opinion, sports) and photography published in newspapers, news magazines and online, blogging and other skill sets employed in contemporary scholastic journalism. Sweepstakes winners receive a plaque. All individual winners receive a Quill and Scroll National Award Gold Key and, as seniors, they are eligible to apply for one of the scholarships offered by Quill and Scroll. Work appearing online or in print is acceptable.

<http://quillandscroll.org/contests/writing-photo-contest>

Columbia Scholastic Press Association Awards

From website: CSPA is an international student press association, founded in 1925, whose goal is to unite student journalists and faculty advisers at schools and colleges through educational conferences, idea exchanges, textbooks, critiques and award programs. CSPA offers Gold and Silver Crown awards as well as Gold Circle Awards for outstanding work in student newspapers, magazines, yearbooks, or online media for entire staffs as well as for individuals.

<http://cspa.columbia.edu/awards-student-work>

The Gutenberg Award

The Gutenberg Award recognizes exceptional achievement in the field of Graphic Arts. Awards are available for printed items, Web sites, and photographs. Entries may be submitted by graphic arts students at any educational level including those in university, college, community-college, post-secondary technical school, high school vocational, high school technology education, and junior high/middle school technology education programs. There are three different Gutenberg competitions: Print, Web Site, and Photography.

<http://www.igaea.org/International-Graphic-Arts-Education-Association/gutenberg-award.html>

The NFPW High School Communications Contest

From website: The NFPW High School Communications Contest inspires students to do outstanding work in their quest for excellence. The only nationwide communications competition for high school students, the NFPW contest is endorsed by the National Association of Secondary School Principals. Dow Jones announces first-place winners and promotes the competition in its publication distributed to journalism advisers across the nation, giving students and their teachers/advisers local and nationwide recognition.

<http://nfpw.org/highSchoolContest.php>

National Scholastic Press Association Awards

From website: You'll always find the latest information and forms for NSPA's contests by visiting this page. Downloadable PDF forms will be available from this page as soon as the forms are created and printed. If you have difficulty downloading the PDF files, please email us to request a copy by mail or fax. These contests are free of charge, but open only to NSPA member publications. To find out if your publication is a current member, check our database. Non-members who enter will be billed for membership.

<http://www.studentpress.org/nsipa/contests.html>

The NewsCurrents Student Editorial Cartoon Contest

The NewsCurrents Student Editorial Cartoon Contest provides young people with a unique way to express their opinions about current issues. Entering is fun, easy, educational, and rewarding. Entrants must submit original cartoons on any subject of national or international interest. Students submitting plagiarized cartoons will be highly embarrassed by our mean public relations staff. But just in case one sneaks by, NewsCurrents does not accept responsibility for the authenticity of any cartoons.

<http://www.newscurrents.com/intro/edcartoons/carcon2.html>

Society of Professional Journalists High School Essay Contest

From website: The Sigma Delta Chi Foundation of the Society of Professional Journalists and the Journalism Education Association want to increase high school students' knowledge and understanding of the importance of the elements of journalism. Topics change from year to year. Please see instructions for how to apply.

<http://www.spj.org/a-hs.asp>

Ayn Rand Institute Essay Contest

From website: Have you read one of Ayn Rand's thought-provoking novels? Now's the time! Enter an Ayn Rand Institute essay contest for your chance to win thousands of dollars in cash prizes. ARI has held worldwide essay contests for students on Ayn Rand's fiction for thirty years. This year we will award over 500 prizes totaling more than \$90,000. To stay informed about contest deadlines and other student updates, register here. Questions? Write to us at essay@aynrand.org.

<http://www.aynrand.org/students/essay-contests>

Jane Austen Society of North America Essay Contest

From website: To foster the study and appreciation of Jane Austen, JASNA conducts an annual student Essay Contest, with support generously provided by the Sonia Raiziss Giop Charitable Foundation. Students interested in the life and works of Jane Austen are encouraged to enter. The Essay Contest is open to students world-wide at the high school, college/university, and graduate school levels of study. Entrants do not need to be members of JASNA. Home-schooled students at the high school level are also eligible. Part-time is defined for the college/university level as a minimum of six credit hours and for the graduate level as a minimum of three credit hours leading to an advanced degree.

<http://www.jasna.org/essaycontest/>

Letters About Literature Contest

From website: Letters About Literature is a reading and writing contest for students in grades 4-12. Students are asked to read a book, poem or speech and write to that author (living or dead) about how the book affected them personally. Letters are judged on state and national levels. Tens of thousands of students from across the country enter Letters About Literature each year. If you are in grades 4-12, you are eligible to enter the Letters About Literature reading and writing contest. Here are the Rules and Guidelines. Here is a Teaching Guide. The Letters About Literature Teaching Guide provides activities teachers can use to guide their students through the book discussion and letter-writing process. The guide addresses the LAL teaching strategies and ways in which the program can dovetail with national standards for teaching reading and writing as well as Common Core State Standards (CCSS). Also included are worksheets for duplication and assessment checklists.

<http://www.read.gov/letters/>

Manningham Trust Student Poetry Contest

From website: There are two divisions for this Poetry Contest: Grade 6-8 (Junior Division) and Grades 9-12 (Senior Division). Each state may submit ten (10) top poems in each division. Poems may have been printed and/or have won previous awards. The competition is open to all USA students in grades 6-12. Public, private, and homeschools are eligible for entry by individual NFSPS member states. Submit two copies of each poem. Put the division (junior or senior) in the upper left corner of both copies. Each poem must be neatly typed or computer-generated, and have no more than 30 lines. If a poem continues more than one page, staple the pages together. Do not staple the two copies of the poem together. It is suggested that each state representative keep a copy of poems entered. There should be no large or unusual fonts or illustrations. Times New Roman is the suggested font. No font larger than 12 point should be used. Winning poems are scanned for the award anthology and large and/or unusual fonts impede the process.

http://www.nfsps.com/student_awards.htm

The Medusa Mythology Exam

From website: The Medusa Exam is open to public, private, and home-school students. Public or private school students must be in the 6th grade or higher; home-school students must be eleven years old. While the exam has a different theme every year, the exam is always a 40-question, multiple-choice format, and students are allowed 40 minutes to complete the exam. Teachers administer the exam during the last week of November (alternative dates are possible if your school's vacation is during this time frame).

<http://www.medusaexam.org/>

ADYLN M. KEFFER SHORT STORY CONTEST

From website: The National Storytellers League encourages all members and story lovers to promote, write, and submit an original and tellable tale for the Adlyn M. Keffer Short Story Writing Contest. Only one entry will be accepted per contestant.

<http://www.nationalstorytellersleague.org/contest.html>

NCTE Achievement Award in Writing

From website: Achievement Awards in Writing is a school-based writing program established in 1957 to encourage high school students in their writing and to publicly recognize some of the best student writers in the nation. Only students who are JUNIORS in the current academic year may be nominated for awards.

www.ncte.org/awards/student/aa

The Scholastic, Inc. Art and Writing Awards

From website: Students across America submitted 300,000 original works during our 2015 program year across 28 different categories of art and writing. The Awards are presented by the Alliance for Young Artists & Writers, a 501(c)(3) nonprofit organization whose mission is to identify students with exceptional artistic and literary talent and present their remarkable work to the world through the Scholastic Art & Writing Awards. Students receive opportunities for recognition, exhibition, publication, and scholarship.

www.artandwriting.org/

SIGNET ESSAY CONTEST

From website: With an unbeatable lineup of over 300 of the greatest literary works the world has ever known, Signet Classics is the publisher that students, education professionals and the public turn to more than any other. Now, we are proud to host our twentieth annual Signet Classics Student Scholarship Essay Contest, in which five high school juniors or seniors can each win a \$1,000 scholarship award to be used toward their higher

education plus a Signet Classics library for their school! Essays must be submitted by a high school English teacher on behalf of students who write an essay on one of five topics for this year's competition book. Check website for details.

<http://www.penguin.com/services-academic/essayhome/>

Baker's Play High School Playwriting Competition

From website: Baker's Plays is a competition that offers a cash prize to the top three playwrights, as well as a publication contract that will earn royalties! Publication is definitely something to aspire to as a young playwright, as it helps get your work read by people across the country (or the world!) and can also score you more production opportunities than entering festivals alone. You can read the full rules for entering Baker's Plays on the website.

http://www.samuelfrench.com/store/contests_festivals.php

Columbia University National Undergraduate Film Festival

From website: CUNUFF is an annual undergraduate film festival run by students. for students. We host guest judges from the film industry at our festival in the spring. Additionally, we hold film-related guest lectures and workshops.

<https://lionlink.columbia.edu/organization/CUNUFF/about>

Donna Reed Foundation for the Performing Arts Scholarship

Each year, the Donna Reed Foundation for the Performing Arts grants scholarships and merit awards to individuals who qualify for post-secondary education and desire to pursue an education or a career in the performing arts. The Foundation continues its long tradition of recognition programs including a history of national and regional competitions, many culminating in Scholarship Concert performances before judges and live audiences.

http://www.donnareed.org/html/templates/dr_section.php?dr_section=scholar

The English-Speaking Union National Shakespeare Competition

From website: The English-Speaking Union National Shakespeare Competition provides teachers across the country with a performance-based program for the study of English Language Arts and Shakespeare. It is a school-based program serving Grades 9-12. Through the Competition, students develop communication skills and an appreciation of the power of language and literature. The Competition has engaged more than 250,000 young people since its inception in 1983.

https://www.esuus.org/esu/programs/shakespeare_competition/

Music Teachers National Association Performance Competition

From website: The purposes of the Music Teachers National Association Performance competitions are to provide educational experiences for students and teachers and to recognize exceptionally talented young artists and their teachers in their pursuit of musical excellence. The state competitions are considered the primary educational level with the division and national levels showcasing outstanding performance and honoring significant pedagogical achievement.

<http://www.mtna.org/programs/competitions/>

National Federation of Music Clubs Awards

From website: The National Federation of Music Clubs (NFMC) offers more than \$750,000 in competition and award prizes on the local, state and national level. The Biennial Young Artist and Ellis Duo-Pianists competitions award a total of \$92,000 in awards and two years of performance bookings. Additional competitions are sponsored by the Federation in a wide range of categories, including voice, instrumental music, composition, dance, conducting, handicapped and visually impaired, and music therapy. NFMC also sponsors more than 38 annual and biennial awards for students desiring to attend the 20 sponsored Summer Music Centers.

<http://www.nfmc-music.org/index.php?src=gendocs&ref=Competition%20%26%20Awards>

youngARTS Program

From website: Every year, YoungArts selects approximately 800 young artists in ten different disciplines from thousands of submitted applications. Those winners participate in National YoungArts Week and/or Regional Programs in Miami, New York or Los Angeles, where—for one intense week—they take Master classes with world-renowned artists, perform and exhibit in the most prestigious venues in the country, win cash awards of up to \$10,000, get access to scholarships and become eligible for nomination as U.S. Presidential Scholars in the Arts. Applications are accepted in Cinematic Arts, Dance (including Ballet, Hip Hop, Choreography, and more), Design Arts (including Fashion, Architecture, Graphic Design, and more), Jazz, Music, Photography, Theater, Visual Arts and Writing (including our new Spoken Word category).

<http://www.youngarts.org/apply>

Princeton Ten-Minute Play Contest

From website: Any student who is in the eleventh grade during the 2014-15 academic year is eligible for the Princeton University Ten-Minute Play Prize. Applicants may submit only one play – 10 pages maximum/one page equals one minute.

<http://arts.princeton.edu/about/opportunities/high-school-contests/ten-minute-play-contest/>

PTA Reflections Program

From website: The arts—and the National PTA Reflections program—support student success and serve as a valuable tool for building strong partnerships in your school community. Celebrate arts learning in your school community with Reflections. National PTA Reflections welcomes all grades and abilities to explore and be involved in the arts. Annually, thousands of students will reflect on a common theme and create original works of art in the categories of dance choreography, film production, literature, music composition, photography and visual arts.

<http://www.pta.org/programs/ArtsinEducation.cfm>

Very Special Arts Playwright Discovery Program

From website: Each year, young writers with and without disabilities, in U.S. grades 6-12 (or equivalents) or ages 11-18 for non-U.S. students, are asked to explore the disability experience through the art of script writing for stage or screen. Writers may craft scripts from their own experiences and observations, create fictional characters and settings, or choose to write metaphorically or abstractly about the disability experience. Young writers with and without disabilities are encouraged to submit a one-act script of any genre. Entries may be the work of an individual student or a collaboration by a group of up to five students.

https://www.kennedy-center.org/education/vsa/programs/playwright_discovery.cfm

Young Playwrights Festival National Playwrighting Competition

From website: DO THE WRITE THING. Write a play and Young Playwrights Inc. will give you a place to be heard. Your play will be read and evaluated in writing by a theater professional; selected writers will come to New York for our Young Playwrights Conference to work with some of this country's most exciting theater artists. Who knows, your play might even be produced Off Broadway in the Young Playwrights Festival! Remember, the power is in your hands.

<http://www.youngplaywrights.org/>

American Foreign Service Association High School Essay Contest

From website: 2015 Topic: In 1,000-1,250 words, discuss one of the following topics: You are a U.S. diplomat posted to one of the following locations: Jordan, Ukraine, Liberia, Taiwan, Honduras, Kazakhstan. Explain what you would do, using the resources available to you as a Foreign Service member, to improve the relations between the U.S. and your chosen post, and how the major foreign policy differences between the two might best be handled in our national interest. This year, all essays must include a discussion of how social media might or might not be helpful as a part of the diplomatic toolbox.

<http://www.afsa.org/essay-contest>

Concord Review Emerson Prize

From website: The Emerson Prize is awarded annually to students published in The Concord Review during the previous academic year who have shown outstanding promise in history at the high school level. Since 1995, 88 students have won the Emerson Prize.

<http://www.tcr.org/page-1826185>

John F. Kennedy Profile in Courage Essay Contest

From website: The Profile in Courage Essay Contest invites United States high school students to consider the concept of political courage by writing an essay on a U.S. elected official who has chosen to do what is right, rather than what is expedient. A “Profile in Courage” essay is a carefully researched recounting of a story: the story of how an elected official risked his or her career to take a stand based on the dictates of the public good, rather than the dictates of polls, interest groups or even constituents. The contest challenges high school students to discover new profiles in courage, and to research and write about acts of political courage that occurred after the 1956 publication of John F. Kennedy's Profiles in Courage.

<http://www.jfklibrary.org/Education/Profile-in-Courage-Essay-Contest.aspx>

Knight Essay Contest

The George S. and Stella M. Knight Essay Contest was originally established and named in honor of President Calvin Coolidge, who won a local SAR essay contest while a student at Amherst. The contest was reestablished in 1988 by Compatriot McCarthy DeMere. In 1995, the contest was renamed the George S. and Stella M. Knight Essay Contest in honor of their generous gift to the SAR to support this contest. The program is designed to give freshman, sophomore, junior and senior students an opportunity to explore events that shaped American history.

https://www.sar.org/Youth/Knight_Essay

Joseph S. Rumbaugh Historical Oration Contest

From website: The Joseph S. Rumbaugh Historical Oration Contest is open to all students attending home schools, public, parochial, or private high schools who are in their freshman, sophomore, junior or senior (grades 9 through 12) year of study. The preliminary rounds of the contest are held by Chapters and/or State Societies of the Sons of the American Revolution to select one winner from each participating state. In regions (SAR Districts) where no State Society sponsors an entrant, an SAR District entry is permitted. Prizes may be awarded to winners of Chapter and State Society (or District) competitions. The State or District sponsor is responsible for informing the contestant how expenses of competing at the National Level will be made. For example, travel, hotel for two evenings and meal expense.

https://www.sar.org/Youth/Oration_Contest

VFW Voice of Democracy Scholarship

From website: Each year, nearly 38,000 high school students from across the country enter to win a share of the \$2.2 million in educational scholarships and incentives awarded through the VFW's Voice of Democracy audio-essay competition. The VFW established the Voice of Democracy program (VOD) in 1947 to provide students grades 9-12 the opportunity to express themselves in regards to democratic ideas and principles. The national first-place winner receives a \$30,000 scholarship paid directly to the recipient's American university, college or vocational/technical school. Other national scholarships range from \$1,000-\$16,000, and the first-place winner from each (state) VFW Department wins a minimum scholarship of \$1,000 and an all-expense-paid trip to Washington, D.C.

<https://www.vfw.org/VOD/>

American Invitational Mathematics Exam (AIME)

From website: The American Invitational Mathematics Examination (AIME) is a 15 question, 3 hour examination in which each answer is an integer number from 0 to 999. The questions on the AIME are much more difficult and students are very unlikely to obtain the correct answer by guessing. As with the AMC 10 and AMC 12, all problems on the AIME can be solved by pre-calculus methods. The AIME is intended to provide further challenge and recognition, beyond that provided by the AMC 10 or AMC 12, to the many high school students in North America who have exceptional mathematical ability. All students who took the AMC 12 and achieved a score of 100 or more out of a possible 150 or were in the top 5% are invited to take the AIME. All students who took the AMC 10 and had a score of 120 or more out of a possible 150, or were in the top 2.5% also qualify for the AIME. Two versions of the AIME are given on two different dates, about two weeks apart, in late March. Unlike the AMC 10/12, a student can only take the AIME once, and is encouraged to do so on the first date offered. There is no additional registration fee for the American Invitational Mathematics Examination, unless you choose to take the second sitting of the exam. The top scoring U. S. citizens and students legally residing in the United States and Canada (with qualifying scores, based on a weighted average) are invited to take the USAMO.

<http://www.maa.org/math-competitions/amc-contests/invitational-competitions>

Young Naturalist Awards

The Young Naturalist Awards is a research-based science competition for students in grades 7-12 to promote participation and communication in science.

<http://www.amnh.org/learn-teach/young-naturalist-awards>

USA Mathematical Talent Search

From website: The USA Mathematical Talent Search (USAMTS) is a free mathematics competition open to all United States middle and high school students. As opposed to most mathematics competitions, the USAMTS allows students a full month , or more, to work out their solutions. Carefully written justifications are required for each problem. The problems range in difficulty from being within the reach of most high school students to challenging the best students in the nation. Students may use any materials - books, calculators, and computers - but all the work must be their own. The USAMTS is run on the honor system - it is an individual competition, whose competitive role is very secondary. (Although we do give prizes.) Student solutions to the USAMTS problems are graded by mathematicians and comments are returned to the students. Our goal is to help all students develop their problem solving skills, improve their technical writing abilities, and mature mathematically while having fun. We wish to foster not only insight, ingenuity and creativity, but also the virtue of perseverance, which is equally essential in scientific endeavors.

<http://www.usamts.org/>

USA Biology Olympiad

From website: As the premiere biology competition for high school students in the United States, the USA Biology Olympiad (USABO) enriches the life science education of nearly 10,000 talented students annually. It provides the motivation, curricular resources, and skills training to take them beyond their classroom experience to the level of international competitiveness. After two rounds of challenging exams, twenty Finalists are invited to a residential training program where they learn advanced biological concepts and exacting lab skills at the USABO National Finals. Ultimately, four students earn the right as Team USA to represent the USA at the International Biology Olympiad (IBO), a worldwide competition involving student teams from over sixty countries.

<http://www.cee.org/usa-biology-olympiad-usabo>

USA National Chemistry Olympiad

From website: he U.S. National Chemistry Olympiad (USNCO) program is a chemistry competition for high school students. The purpose of the competition is to stimulate young people to achieve excellence in chemistry.

The American Chemical Society (ACS) has sponsored the program since 1984. The local competition is open to all high school students. ACS Local Sections use various methods to choose nominees for the national exam. Students can review past Local Exams to study for their local competition.

<http://www.acs.org/content/acs/en/education/students/highschool/olympiad.html>

Science Olympiad

From website: In grades 6-12, Science Olympiad functions much like a football or soccer team, requiring preparation, commitment, coaching and practice throughout the year. Each school-based team is allowed to bring 15 students who cross-train for a variety of events in their skill set, but some school clubs have more than 75 members, allowing for an apprentice and mentoring system. Science Olympiad competitions are like academic track meets, consisting of a series of 23 team events in each division (Division B is middle school; Division C is high school). Each year, a portion of the events are rotated to reflect the ever-changing nature of genetics, earth science, chemistry, anatomy, physics, geology, mechanical engineering and technology. By combining events from all disciplines, Science Olympiad encourages a wide cross-section of students to get involved. Emphasis is placed on active, hands-on group participation. Through Science Olympiad, students, teachers, parents, principals and business leaders bond together and work toward a shared goal.

<https://www.soinc.org/>

President's Environmental Youth Award

From website: The President's Environmental Youth Award (PEYA) recognizes outstanding environmental projects by K-12 youth. The PEYA program promotes awareness of our nation's natural resources and encourages positive community involvement. Since 1971, the President of the United States has joined with EPA to recognize young people for protecting our nation's air, water, land, and ecology. It is one of the most important ways EPA and the Administration demonstrate commitment to environmental stewardship efforts created and conducted by our nation's youth.

<http://www2.epa.gov/education/presidents-environmental-youth-award>

Physics Bowl

From website: The PhysicsBowl is a competition for high school students and schools. Every year in April, students and schools compete by answering 40 multiple choice questions from topics taken in high school physics.

<http://www.aapt.org/programs/physicsbowl/>

National Young Astronomer Award

From website: The Astronomical League sponsors the National Young Astronomer Award (NYAA) to recognize the outstanding astronomical research achievements of high-school-age students throughout the United States. The first-place winner will receive a fine telescope made possible by the generosity of Explore Scientific, which also contributes significantly to the administration of the NYAA program. The first-place and second-place winners receive an expense-paid trip to the Astronomical League national convention (AlCon) to receive their awards.

<https://www.astroleague.org/al/awards/nyaa/noya.html>

Mathleague.org Contests

From website: mathleague.org sponsors a series of high school math contests each year to determine the individual and team state champions in several states. Local qualifying tournaments are held throughout the school year at various sites in these states.

<http://mathleague.org/hs.php>

GTC Mandelbrot Competition

From website: Greater Testing Concepts offers two contests at the high school level. The first is the Mandelbrot Competition, which adheres to a short answer format and takes place in five rounds spread throughout the school year. The range of questions and topics is designed to engage students with only a modest background in problem solving while still stretching the best students in the country. The second is the Mandelbrot Team Play, emphasizing mathematical writing skills and effective group work. This contest is held in three rounds during the winter months to help advanced students prepare for events such as the USAMO.

<http://www.mandelbrot.org/>

International Physics Olympiad

From website: The International Physics Olympiad (IPhO) is an annual physics competition for high school students. It is one of the International Science Olympiads. The first IPhO was held in Warsaw, Poland in 1967.

<http://ipho.phy.ntnu.edu.tw/>

DuPont Challenge Science Essay Awards Program

From website: Are you passionate about the exciting world of science? Are you intrigued by the possibilities that the latest scientific ideas and developments may hold for our future? The DuPont Challenge, North America's premier science essay competition, encourages you to delve deep into your interests in science, technology, engineering, and math (STEM) and express yourself with creativity and purpose. Ours is a growing

world that faces new challenges each day, and we want YOU to share your ideas for how science can help keep our global population supplied with food, safety, and clean energy. Essays must be between 700 to 1,000 words in length, include a list of research sources, and fall under one of four categories.

<http://thechallenge.dupont.com/essay/>

Earthwatch Student Fellowship

From website: Every year, generous foundations, corporations, and individuals concerned about our future leaders provide funding for Earthwatch fellowships for students. Fellowship funding is critical to make it possible for young people to participate in an expedition who would otherwise be unable to go. Students who participate often aspire to be the leaders of their generation, engaging in both individual and collective action for the environment.

<http://earthwatch.org/education/student-fellowships>

ExploraVision Awards

From website: Established in 1992, The Toshiba/NSTA ExploraVision program has become one of the largest and most widely known K-12 student science awards, with approximately one quarter million student participants to date. Sponsored by Toshiba Corporation, the Toshiba America Group Companies and the Toshiba America Foundation, the program is administered by the National Science Teachers Association (NSTA). ExploraVision helps students discover the wonders of science and the world. Winners receive generous savings bonds and Toshiba products. In the ExploraVision program, students choose a current technology and imagine what it might be like 20 year in the future.

<http://www.exploravision.org/>

FIRST STEP TO NOBEL PRIZE IN PHYSICS

From website: First Step to Nobel Prize in Physics is an annual international competition in research projects in physics. All the secondary (high) school students regardless of the country, type of the school, sex, nationality etc. are eligible for the competition. The only conditions are that the school cannot be considered as a university college and the age of the participants should not exceed 20 years on March 31 (every year March 31 is the deadline for submitting the competition papers). There are no restrictions concerning the subject matter of the papers, their level, methods applied etc. All these are left to the participants' choice. The papers, however, have to have a research character and deal with physics topics or topics directly related to physics.

<http://www.ifpan.edu.pl/firststep/>

The Gloria Barron Prize for Young Heroes

From website: The Gloria Barron Prize for Young Heroes celebrates outstanding young leaders. Each year the Barron Prize honors 25 inspiring young people who have made a significant positive difference to people and our planet. These young people reflect great diversity: They are female and male, urban and rural, and from many races and backgrounds.

<http://www.barronprize.org/>

The Harvard–MIT Mathematics Tournament

From website: The Harvard–MIT Mathematics Tournament (HMMT) is an annual high school math competition started in 1998. The location of the tournament, in Cambridge, Massachusetts, alternates between Harvard University (even years) and MIT (odd years). The contest is written and staffed entirely by Harvard and MIT students, and is considered to be one of the most prestigious high school math competitions in the world.

hmmt.mit.edu/

High School Mathematical Contest in Modeling (HiMCM)®

From website: HiMCM offers students the opportunity to compete in a team setting using mathematics to present solutions to real-world modeling problems. It's a chance to challenge your brain, solve a real world math problem, and get recognition for it on an international stage. It's an excellent opportunity to develop your interpersonal skills through teamwork. It's also an impressive resume credential and an advantage when applying for internships. Added Attraction: A chance for your top US team to win the Two Sigma \$10,000 Scholarship Award, and more.

<http://www.comap.com/highschool/contests/himcm/>

The Intel International Science and Engineering Fair (Intel ISEF),

From website: The Intel International Science and Engineering Fair (Intel ISEF), a program of Society for Science & the Public (SSP), is the world's largest international pre-college science competition. Approximately 1,700 high school students from over 75 countries, regions, and territories are awarded the opportunity to showcase their independent research and compete for approximately \$4 million in prizes. Today, millions of students worldwide compete each year in local and school-sponsored science fairs; the winners of these events go on to participate in SSP-affiliated regional and state fairs from which the best win the opportunity to attend Intel ISEF. Intel ISEF unites these top young scientific minds, showcasing their talents on an international stage, where doctoral level scientists review and judge their work.

<https://student.societyforscience.org/intel-isef>

The Intel Science Talent Search (Intel STS)

From website: The Intel Science Talent Search (Intel STS), a program of Society for Science & the Public (SSP) is the nation's most prestigious science research competition for high school seniors. Since 1942, first in partnership with Westinghouse and since 1998 with Intel, SSP has provided a national stage for the country's best and brightest young scientists to present original research to nationally recognized professional scientists.

<https://student.societyforscience.org/intel-sts>

International Biology Olympiad

From website: The International Biology Olympiad (IBO) is a competition for secondary school students, who are winners of their respective National Biology Olympiad. Their skills in tackling biological problems, and dealing with biological experiments are tested. Interest in biology, inventiveness, creativity and perseverance are necessary. In bringing together gifted students, the IBO tries to challenge and stimulate these students to expand their talents and to promote their career as scientists. A very important point is bringing together young people from over the world in an open, friendly and peaceful mind. Every participating country sends four students, who are the winners of the respective national competitions. They are accompanied by two team leaders who represent the country.

<http://www.ibo-info.org/>

The International Brain Bee

From website: The International Brain Bee was founded in 1999 and is the world-wide neuroscience competition for high school students. The Brain Bee motivates students to learn about the brain, captures their imaginations, and inspires them to pursue neuroscience careers in order to help treat and find cures for neurological and psychological disorders. There are currently about 150 Local Brain Bee coordinators in 30 countries worldwide that conduct competitions annually. The winner of each Local Bee is invited to attend the National Brain Bee competition in his or her own country, and the winner of each National Bee is invited to compete in the International Brain Bee Championship. Brain Bees test one's knowledge of the human brain including such topics as intelligence, emotions, memory, sleep, vision, hearing, sensations, Alzheimer's disease, Parkinson's disease, stroke, schizophrenia, epilepsy, depression, addictions and brain research. The local competitions are in the question-and-answer format based on material from a book that is freely downloadable from the internet. The championship competitions may also involve a neuroanatomy laboratory practical with real human brains, neurohistology with microscopes, brain imaging identification and patient diagnosis with patient actors. The International Brain Bee is a program of the non-profit foundation Mankind for International Neuroscience Development, Inc. (MIND, Inc).

<http://www.dental.umaryland.edu/brainbee/>

International Chemistry Olympiad

From website: The International Chemistry Olympiad (IChO) is an annual competition for the world's most talented chemistry students at the secondary school level. Nations around the world send a team of four students, who are tested on their chemistry knowledge and skills in a five-hour laboratory practical and five-hour written theoretical examination.

<https://acswebcontent.acs.org/icho2012/>

International Mathematical Olympiad

From website: The International Mathematical Olympiad (IMO) is the World Championship Mathematics Competition for High School students and is held annually in a different country. The first IMO was held in 1959 in Romania, with 7 countries participating. It has gradually expanded to over 100 countries from 5 continents. The IMO Advisory Board ensures that the competition takes place each year and that each host country observes the regulations and traditions of the IMO.

<https://www.imo-official.org/>

NASA Ames Space Settlement Contest

From website: This annual contest, co-operated by NASA Ames Research Center, San Jose State University, and the National Space Society (NSS) is for all students up to 12th grade (18 years old) from anywhere in the world. Individuals, small teams of two to five, and large teams of six or more are judged separately. Entries are also grouped by age/grade of the oldest contestant for judging. The age groups are 7th and under, 8th, 9th, 10th, 11th and 12th. The grand prize is awarded to the best entry regardless of contestant age. Students develop space settlement designs and related materials. These are sent to NASA Ames for judgment.

<http://settlement.arc.nasa.gov/Contest/>

FIRST Robotics Competition

From website: The varsity Sport for the Mind™, FRC combines the excitement of sport with the rigors of science and technology. Under strict rules, limited resources, and time limits, teams of 25 students or more are challenged to raise funds, design a team "brand," hone teamwork skills, and build and program robots to perform prescribed tasks against a field of competitors. It's as close to "real-world engineering" as a student can get. Volunteer professional mentors lend their time and talents to guide each team.

<http://www.usfirst.org/roboticsprograms/frc>

American Computer Science League

From website: ACSL organizes computer science contests and computer programming contests for junior and senior high school students.

<http://www.acsl.org/>

Real World Design Challenge

From website: The Real World Design Challenge (RWDC) is an annual competition that provides high school students, grades 9-12, the opportunity to work on real world engineering challenges in a team environment. Each year, student teams will be asked to address a challenge that confronts our nation's leading industries. Students will utilize professional engineering software to develop their solutions and will also generate presentations that convincingly demonstrate the value of their solutions. The RWDC provides students with opportunities to apply the lessons of the classroom to the technical problems that are being faced in the workplace.

<http://www.realworlddesignchallenge.org/>

USA Computing Olympiad

From website: The USA Computing Olympiad hosts a range of programming and computer science camps, online computing resources, as well as a national (and several international) computing competitions.

<http://www.usaco.org/index.php?page=camp>

ACL/NJCL National Greek Exam

From website: Yearly exam on reading comprehension, etymologies, grammar, vocabulary, history, and mythology. Six exams, from introduction to intermediate, as well as Attic Prose, Attic Tragedy, and Homeric Greek.

<https://aclclassics.org/pages/national-greek-exams>

Japan Bowl

From website: The Japan Bowl® was created by the Japan-America Society of Washington DC in 1992. It is an academic competition that tests the achievements of high school students throughout the United States who are studying the Japanese language. But the Japan Bowl goes beyond language. It also tests the student's knowledge of Japan, the country. The National Japan Bowl competition is held each spring. The format is modeled on popular quiz shows such as "It's Academic." • Teams from different levels, depending on how long they have studied Japanese.

<http://www.jaswdc.org/page-1451994>

National French Exam, Le Grand Concours

From website: The National French Contest/Le Grand Concours is an annual competition sponsored by the American Association of Teachers of French. Students of French in grades 1-12, in all 50 states and abroad, take a written test and compete against students with similar educational background for prizes. Grades 1-6 participate in the FLES Contest. Grades 7-12 in the Secondary Contest. Students enter via their French teacher. All students are eligible -- home school parents or private tutors can request information on participation from the nearest Chapter Administrator. Students of non-AATF members are also welcome to participate.

https://www.frenchteachers.org/concours/gc_about/gc_about.htm

National German Exam

From website: The National German Exam is administered each year to nearly 22,000 high school students in the second, third and fourth level of German. The Exam, now in its 55th year, provides individual diagnostic feedback, rewards students through an extensive prize program, and creates a sense of accomplishment. Exam results provide a means of comparing students in all regions of the country, as well as programmatic data

provided to help inform curricular decisions. Exam results are among the criteria used in selecting the recipients of chapter awards and the national AATG/PAD Study Trip Awards, a four-week study trip program in Germany.

<http://www.aatg.org/?page=NGE#.Vb7HhvNViko>

National Latin Exam

From website: The National Latin Exam, sponsored by the American Classical League and the National Junior Classical League, is a 40-question, multiple-choice test with a time limit of 45 minutes, offered to students on seven levels. On the Introduction to Latin, Latin I, Latin II, Latin III, Latin III/IV Prose, and Latin III/IV Poetry exams, there are questions on grammar, comprehension, mythology, derivatives, literature, Roman life, history, geography, oral Latin, and Latin in use in the modern world. The Latin V-VI exam contains two Latin passages as the basis for questions on grammar, comprehension, historical background, classical literature, and literary devices. The philosophy of the National Latin Exam is predicated on providing every Latin student the opportunity to experience a sense of personal accomplishment and success in his or her study of the Latin language and culture. This opportunity exists for all students since, in the National Latin Exam, they are not competing with their fellow students on a comparative basis, but are evaluated solely on their own performance on the exam. The basic purposes of the NLE are to promote the study of Latin and to encourage the individual student.

<http://www.nle.org/>

National Spanish Exam

From website: The National Spanish Examinations are online, standardized assessment tools for Grades 6 -12, given voluntarily by over 3800 teachers throughout the United States to measure proficiency and achievement of students who are studying Spanish as a second language.

<https://www.nationalspanishexam.org/>

Girl Scouts Global Action Award

From website: The Girl Scouts Global Action award, developed in partnership with the World Association of Girl Guides and Girl Scouts (WAGGGS), is an exciting and enriching way for Girl Scout Daisies to Ambassadors to participate in realizing the United Nations' Millennium Development Goals (MDGs) which aim to reduce extreme poverty and impact major world concerns by 2015. By earning the Global Action award, girls can learn, in a fun and educational way, about serious global issues affecting girls, young women, and their communities. Each Girl Scout who completes activities will join in WAGGGS' international movement of 10 million girls who together are sowing the seeds of social change. The Global Action award offers girls an opportunity to advocate for themselves and others, both locally and globally—one of the five national Take Action outcomes (PDF) detailed in the Girl Scout Leadership Experience.

http://www.girlscouts.org/who_we_are/global/global_action_award/

Kids Philosophy Slam

From website: The Kids Philosophy Slam is an annual program designed to make philosophy fun and accessible to all kids in grades K—12, as well as to help promote critical thinking skills and encourage dialogue with other students and adults. The Philosophy Slam asks kids to answer a philosophical question such as "What is the meaning of life?" Depending on their age, kids can express themselves in words, artwork, poetry or song. Each grade level has its own national winner, and the top four high school students debate the question at the national finals. The winner earns the title of "The Most Philosophical Student in America" Schools from across the country compete for the title of "The Most Philosophical School in America."

<http://www.philosophyslam.org/>

National Forensic League National Speech and Debate Tournament

High school students from all fifty states compete for honors and scholarship money in debate, poetry and prose interpretation, Student Congress, and extemporaneous and platform speaking. Competitors must first be selected by competing and placing in Arizona NFL National Qualifiers.

<http://www.speechanddebate.org/nationals>

National High School Chess Championships

From website: The US Chess Federation is a 501 (c) (3) nonprofit organization dedicated to empowering people through chess, one move at a time. Our vision is to enrich the lives of all persons and communities through increasing the play, study, and appreciation of the game of chess.

<https://new.uschess.org/home/>

NFIB Young Entrepreneur Award

From website: The NFIB Young Entrepreneur Awards program was established to raise awareness among the nation's youth of the critical role that private enterprise and entrepreneurship play in the building of America. Since 2003, the NFIB Young Entrepreneur Foundation has awarded over 2,500 scholarships to graduating high school seniors totaling more than \$2.5 million.

<http://www.nfib.com/foundations/yef/yef-programs/young-entrepreneur-awards/>

Optimist International Essay Contest

From website: The Essay Contest is sponsored by Optimist International to give young people the opportunity to write about their own opinions regarding the world in which they live. The approach can encompass a young person's personal experience, the experience of their country or a more historical perspective. In addition to developing skills for written expression, participants also have the opportunity to win a college scholarship! The guidelines require that contestants be under age 18 as of September 30 of the contest school year and attending school in the United States, Canada, or the Caribbean. Club winners advance to the District contest to compete for a \$2,500 college scholarship. The District-level scholarships are funded by the Optimist International Foundations.

<http://www.optimist.org/e/member/scholarships3.cfm>

Prudential Spirit of Community Awards

From website: The Prudential Spirit of Community Awards program is the United States' largest youth recognition program based exclusively on volunteer community service. The program was created in 1995 by Prudential in partnership with the National Association of Secondary School Principals (NASSP) to honor middle level and high school students for outstanding service to others at the local, state, and national level. The program's goals are to applaud young people who already are making a positive difference in their towns and neighborhoods, and to inspire others to think about how they might contribute to their communities. Over the past 20 years, more than 370,000 young Americans have participated in the program, and more than 115,000 of them have been officially recognized for their volunteer efforts.

<http://spirit.prudential.com/>

Rotary Youth Leadership Awards

From website: Rotary Youth Leadership Awards (RYLA) is a leadership development program run by Rotary. While participants can be any age, most events focus on secondary school students, university students, or young professionals. RYLA events are typically 3–10 days long and include presentations, activities, and workshops that cover a variety of topics, including:

- Leadership fundamentals and ethics
- Communication skills
- Problem solving and conflict management
- Community and global citizenship

<https://www.rotary.org/en/get-involved/join-leaders/rotaract-interact-and-ryla>

United States Senate Youth Program

From website: The United States Senate Youth Program, established in 1962 by U.S. Senate Resolution, is a unique educational experience for outstanding high school students interested in pursuing careers in public service. The 54th annual program will be held in Washington, D.C., from March 5 – 12, 2016. Two student leaders from each state, the District of Columbia and the Department of Defense Education Activity will spend a week in Washington experiencing their national government in action. Student delegates will hear major policy addresses by Senators, cabinet members, officials from the Departments of State and Defense and directors of other federal agencies, as well as participate in a meeting with a Justice of the U.S. Supreme Court. All transportation, hotel and meal expenses will be provided by The Hearst Foundations. In addition, each delegate will also be awarded a \$5,000 College Scholarship for undergraduate studies, with encouragement to pursue coursework in history and political science.

<http://ussenateyouth.org/>

U.S. Go Congress

Several hundred Go players from around the world come together once a year at the US Go Congress to play serious and casual games, to learn from stronger players, to teach weaker players, and to renew friendships. Professional Go players from the US and several foreign countries give lectures, analyze games for attendees, play simultaneous games against attendees, and participate in the top tournaments. The US Open tournament is for everyone consisting of 6 rounds over 6 days on most mornings.

<http://www.gocongress.org/>