

## **Summer Program Opportunities**

Below, you will find websites for colleges and universities offering a wide range of opportunities in summer programs. These experiences can help you to learn more about a field that you might want to understand better. They can also be a great chance to get a feel for one particular campus. Take time to explore what is available. If you have any questions, feel free to come and talk with me. *Mr. Morgan – for the Counseling Dept.*

### **FRESHMEN**

**TIP** – “Talent Identification Program” at Duke & Johns Hopkins (*note*: program identifies academically gifted middle-school students as well; varied curriculum offered across grade levels with some students attending multiple summers)

#### **STEM – Naval Academy sponsored**

- a relatively new summer program offered by the Naval Academy for students from *grade's 8-11* - "STEM" (Science, Technology, Engineering & Mathematics)

<http://www.usna.edu/Admissions/stem.html>

The varying (by grade level) sessions run during June - the topics look fantastic (engaging & rich with problem solving opportunities) - and all students receive full scholarships to attend the camp (room/board, materials...). Applications are slated to "open early February" - strong academic performance (GPA...) and testing (PSAT...) form the core of the application

Below too is an article about the program's first year -

[http://www.navy.mil/search/display.asp?story\\_id=38055](http://www.navy.mil/search/display.asp?story_id=38055)

#### **SAME – Society of American Military Engineers**

The Society of American Military Engineers offers a very unique series of engineering camps designed for High School students who excel in math, science and technical courses and are interested in pursuing engineering in college. These one-week camps are high energy, hands-on events for students from across the country and around the world. The camps are led by a professional staff of engineers from both private industry and the military services. These exciting week-long camps take place during the summer months in a variety of settings—centered on a military base in the colorful Colorado Rockies, the beautiful Southern California Coast, or the historic Mississippi Valley.

[http://samecamps.org/?page\\_id=2](http://samecamps.org/?page_id=2) (cost - \$275...local SAME post pays equal amount)

-open to students from *freshman thru junior year* with a minimum of 3.3 on an unweighted 4.0 scale & who “have an expressed intent to pursue a degree in **architecture, engineering** or a **related field**.”

-per *Juniors* – applicants to the *Air Force* (Colorado Springs) camp must also be applying to either a Service Academy or ROTC program (JROTC *not* necessary)

\*Application deadlines range from *mid-March* to mid-May (for the August session)

### **SOPHOMORES (Rising Juniors)**

#### **Hugh O'Brian Youth Leadership Seminar (HOBY)**

Nominations gathered & process completed in Oct./Nov.; program dates – usually first weekend of June. For nearly five decades, HOBY has worked diligently at empowering young people to make a difference and become positive catalysts for change in the home, school, and community. HOBY's mission is to provide lifelong leadership development opportunities that empower individuals to achieve their highest potential.

### **Carnegie Mellon - SAMS**

(see below under CM) *Summer Academy for Mathematics and Science* - Students who are entering their junior or senior year and are considering careers in engineering, science and other math-based disciplines are eligible to apply.

### **Office of Naval Research - Science & Engineering Apprenticeship Program (SEAP)**

Sophomores & Juniors – 8 weeks summer program with stipend; working in Dept. of Navy labs

- for summer 2011 application deadline was Jan. 14
- program info. shared with math/science teachers – early November

**[http://seap.asee.org/program\\_details](http://seap.asee.org/program_details)**

### **JUNIORS (Rising Seniors)**

*National Youth Leadership Forum* (see below)

*Congressional Youth Leadership Forum*

*LeadAmerica* [www.lead-america.org](http://www.lead-america.org) | 866.FYI.LEAD) (see below)

*“Boy’s State”*

*Presidential Classroom*

*VA Governor’s School* (open to VA residents only)

*Teluride* (summer institute for highly gifted students – broad range of science and humanities covered)

*Davidson’s “July Experience”* (humanities (& f. languages)/math/science courses – enrichment)

### **The National Youth Leadership Forum on Collegiate Success**

National Youth Leadership Forum on Collegiate Success (NYLF/CS). As an educator, you would know who would benefit the most from NYLF/CS, a program designed to prepare students for their transition from high school to college.

The Forum on Collegiate Success will give your students an idea of what it is like to live and learn on a college campus. Nominated students will have the option to attend the program at one of the following top colleges and universities:

- |                                     |                                      |
|-------------------------------------|--------------------------------------|
| - Emory University                  | - UCLA                               |
| - Johns Hopkins University          | - University of Minnesota            |
| - UC Berkeley                       | - Columbia University                |
| - Boston University                 | - Villanova University               |
| - University of Illinois at Chicago | - University of Washington           |
| - Ohio State University             | - Seton Hall University              |
| - Southern Methodist University     | - George Washington University       |
| - University of Houston             | - Washington University in St. Louis |

- Florida State University

- Arizona State University

Students will begin their time at the *Forum* with a valuable skills assessment exercise that challenges scholars to recognize their true strengths, interests and beliefs. Students will also attend a series of workshops addressing self-esteem, financial responsibility, time management, public speaking and conflict resolution.

### **Lead-America**

Brochure - <http://www.lead-america.org/conferences/cslc/2012HSBrochure.pdf>

Application - [http://www.lead-america.org/conferences/cslc/2012HS\\_Application.pdf](http://www.lead-america.org/conferences/cslc/2012HS_Application.pdf)

#### **Programs / Topics**

High School Conferences Business &  
Entrepreneurship  
Business & Leadership (Babson College)  
Digital Media, Broadcast & Journalism  
Engineering & Technology  
Innovation in Business (Arizona State U)  
Law & Justice

Law & Trial (Stanford Law School)  
Leadership University  
Medicine & Healthcare  
National Leadership Summit  
National Security & Intelligence  
Theatre Arts

2012 conference sites include the following colleges and universities:

Stanford University  
Stanford Law School  
Johns Hopkins University  
Columbia University  
Babson College  
Franklin W. Olin College of  
Engineering/MIT

University of California, Berkeley  
University of California (UCLA), Los  
Angeles  
The George Washington University  
Pace University  
DePaul University  
Arizona State University

**Marie Walsh Sharpe Summer Program in the Visual Arts** – one of the premier summer visual arts program for rising high school seniors (teacher nomination via the Fine Arts Dept.)

**Michigan Math and Science Scholars (MMSS)** two 2-week sessions. For details go to [www.math.lsa.umich.edu/](http://www.math.lsa.umich.edu/)

**School of Cinema and Performing Arts.** For details go to <http://www.socapa.org>  
Sites: NY, LA, Vermont; 800-718-2787; [arts@socapa.org](mailto:arts@socapa.org); Admissions--rolling deadline  
Filmmaking, Dance, Photography, Film Acting

### **Programs offered by or through particular Colleges**

**University of Alabama:** Business Leadership Academy at [www.cba.ua.edu/summeracademy](http://www.cba.ua.edu/summeracademy)

### **Boston University**

*I. Academy of Media Production* at <http://www.bu.edu/amp>

2. **PROMYS** (started by Ohio's *Ross* alumni) (Program in Mathematics for Young Scientists) - running July 1 - August 11 - - offering "an intensive experience in creative mathematical exploration." The cost for the 6 week residential program is \$2,700 (with financial assistance available). For further information:  
[www.promys.org](http://www.promys.org) Applications accepted until mid-May.

### **Carnegie Mellon - SAMS**

<http://www.cmu.edu/enrollment/summerprogramsfordiversity/sams.html> The *Summer Academy for Mathematics and Science* is a rigorous residential summer experience for good students who have a strong interest in math and science and want to become excellent students. Students who are entering their junior or senior year and are considering careers in engineering, science and other math-based disciplines are eligible to apply. Students must be at least 15 years old to participate in this program. The program will focus on creating interest in technical disciplines and building academic and personal skills to better prepare you for the college application process.

### **Catholic University - Engineering New Frontiers**

<http://engineering.cua.edu/ENF.cfm>

*Engineering New Frontiers (ENF)* is a weeklong, residential summer camp for rising high-school juniors and seniors held on the campus of The Catholic University of America from July 17 to 22, 2011. (*applications due early/mid-May*)

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 tours, sporting events, and various other safe recreational activities.

**Tuition:** The cost to students for the camp and room and board is \$550 each, this includes all extra activities and entertainment.

**Please contact:** Mary Kate Zabroske, Program Director  
CUA School of Engineering  
620 Michigan Avenue NE  
Pangborn Hall Room 102  
202-319-5160    [zabroske@cua.edu](mailto:zabroske@cua.edu)

**Clemson University:** Summer Science, Engineering, and Architecture Enrichment Program at [www.clemson.edu/summerscience](http://www.clemson.edu/summerscience)

**Columbia University:** Summer High School Programs at [www.ce.columbia.edu/highschool](http://www.ce.columbia.edu/highschool)

### **Cornell University** - "Summer College"

[www.summercollege.cornell.edu](http://www.summercollege.cornell.edu) – 3 to 6 week programs between late June 23 & early August; 3 to 6 credits possible with college courses; experience of life on campus, with the opportunity to explore careers & academic majors from architecture to veterinary medicine (*see site for complete listings [law, medicine, psychology, business, engineering...]*)

**University of Delaware Summer College:** 7/11 – 8/15. For details go to  
<http://www.udel.edu/summer-college> (Also open to Sophomores)

**Denison University:** **The Reynolds Young Writers Workshop**, now in its eighteenth year, is an eight-day residential summer program that offers a marvelous opportunity for high school students to work intensively with professional poets, fiction and nonfiction writers on Denison's beautiful college campus in Granville, Ohio. If you're currently a sophomore, junior, or senior, you are eligible to apply. This year's program dates are **June 17 to 24, 2012**.

Our small workshops in poetry, fiction, and nonfiction give beginning poets and writers the chance to develop their talents and refine their skills. Daily crosswriting 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.

Please visit our website at [reynolds.denison.edu](http://reynolds.denison.edu) (<http://reynolds.denison.edu/>), where you will find full details about our program, photo galleries, a blog, and downloadable application forms. This year's applications must be postmarked no later than **March 8, 2012**.

**Emerson College:** Summer Arts and Communication Academy at [continuing@emerson.edu](mailto:continuing@emerson.edu)

**Furman University:** Summer Scholars at [www.furman.edu/summerscholars](http://www.furman.edu/summerscholars)

**George Washington (GW) Summer Scholars** at [www.summerscholars.gwu.edu](http://www.summerscholars.gwu.edu)

**Loyola University (Chicago):** Pre-Collegiate Summer Scholars Program at  
[www.LUC.edu/summerscholars](http://www.LUC.edu/summerscholars)

**University of Maryland (UMD) – College Park**

Yuri Kochiyama (YK) High School Leadership Program (*Asian American student program, Spring, Saturday afternoons*)

[summer college offerings & other programs available – please see UMD website]

**Notre Dame - Pre-College Leadership Seminars**

African American Scholars: <http://www.nd.edu/~aasnd/>

Latino Community Leadership Seminar: <http://www.nd.edu/~lclsem/>

Global Issues Seminar: <http://www.nd.edu/~gis/>

**Ohio State University: The Ross Program** (*mathematics*)

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

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 eight weeks, students are immersed in a world of mathematical discovery.

The central goal of the Ross Program has always been to instruct bright young students in the art of mathematical thinking and to inspire them to discover for themselves that abstract ideas are valuable and important. First year participants take the basic course in number theory. For most students, this is the first time they are asked to consider entirely new questions, to develop methods that they have not seen before, and to justify every answer.

#### ELIGIBILITY

Ambitious pre-college students with interests in mathematics and science are invited to apply. First-year students range in age from 14 to 18 years old. 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.

#### COSTS AND FINANCIAL AID

Fees for this program are determined entirely by cost of eight weeks of room and board. For the 2011 session, the fee for each participant is \$2,750. (*Some financial aid is available.*)

**Penn State:** A) Summer Study at [www.summerstudy.com](http://www.summerstudy.com), B) Summer Enrichment at [www.bestsummerever.com](http://www.bestsummerever.com)

### **The Princeton University Summer Journalism Program**

*Applications are due (usually about) February 20*

What is *The Princeton University Summer Journalism Program*? “We welcome about 20 high school students from low-income backgrounds every summer to Princeton's campus for an intensive, 10-day seminar on journalism. The program's goal is to diversify college and professional newsrooms by encouraging outstanding students from low-income backgrounds to pursue careers in journalism. All expenses, including students' travel costs to and from Princeton, are paid for by the program. Students who attend the program come from across the country.

*(founded 2001)* <http://www.princeton.edu/sjp/>

### **West Point - Summer Leaders Seminar**

Local high school juniors can apply for the annual **Summer Leaders Seminar** at the United States Military Academy, West Point, New York.

About 1,000 juniors will be accepted into one of two sessions, June 2-8 or June 9-15

The program consists of daily morning physical training, academic classes, intramurals, a day of military training, administration of the Candidate Fitness Assessment, a West Point tour and social functions. The academic program features workshops and classes from the academy's curriculum. All participants stay in cadet barracks and meals are in the Cadet Mess Hall.

Students must pay their own travel expenses, plus a registration fee of \$350 to cover food, workshop materials, and West Point apparel.

Applicants must have PSAT scores of 60 or higher in most categories, SAT scores of 600 or higher in most categories, and/or ACT scores of 28 or higher in most categories; must have demonstrated leadership abilities, such as offices held in extra-curricular organizations, and must show athletic ability including endurance and strength.

The United States Military Academy at West Point, N.Y., is a four-year co-educational federal undergraduate liberal arts college 50 miles north of New York City.

West Point website (online application embedded):

[http://admissions.usma.edu/summer\\_program.html](http://admissions.usma.edu/summer_program.html)

### **Vanderbilt**

1. **Summer Academy** at [www.ptv.vanderbilt.edu](http://www.ptv.vanderbilt.edu)

2. **PAVE** program

<https://pave.vanderbilt.edu/hs-student-noms.html> ) and complete the online form.

Program overview - <https://pave.vanderbilt.edu> Financial support is available.

*Nominations usually due pre-Thanksgiving.*

PAVE Office, Pre-College Division (Prof. John Veillette, Ph.D. - Founder, Director and Associate Dean)

Vanderbilt University

[pave@vanderbilt.edu](mailto:pave@vanderbilt.edu)

Tel: 615 322 7827

Fax: 615 322 3297

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***University of Toronto***

A) Faculty of Applied Science and Engineering, [www.engineering.utoronto.ca](http://www.engineering.utoronto.ca)

B) Faculty of Law, [www.ysp.utoronto.ca/law](http://www.ysp.utoronto.ca/law)

C) Faculty of Medicine, [www.ysp.utoronto.ca/medicine](http://www.ysp.utoronto.ca/medicine).