

WKU

The Center for Gifted Studies



June 23 - July 13

WKU'S SUMMER PROGRAM FOR VERBALLY AND MATHEMATICALLY PRECOCIOUS YOUTH

June 23 - July 13, 2013

The Center for Gifted Studies at Western Kentucky University, through a cooperative arrangement with the Duke Talent Identification Program, is pleased to offer VAMPY, a **three-week residential summer program** for very bright students who are currently enrolled in **grades seven through ten**. VAMPY is designed to provide a balance of educational, cultural, and recreational experiences for high ability young people. The program will be held on the beautiful campus of **Western Kentucky University** which is located in south central Kentucky, seventy miles north of Nashville, Tennessee.

WHAT CLASSES ARE BEING OFFERED?

You will select from the following classes, each of which is conducted in a fast-paced, challenging format:

ARABIC
ASTRONOMY

CHEMISTRY

CHINESE

FORENSIC CHEMISTRY

GENETICS

HUMANITIES

MATHEMATICS

NAZI GERMANY AND THE HOLOCAUST

PHYSICS

PRESIDENTIAL POLITICS

PROBLEMS YOU HAVE NEVER SOLVED BEFORE

STEAM LABS™

SUSTAINABILITY

WORLD BIOGRAPHIES

WRITING

Classes meet six hours each weekday and are taught by outstanding teachers. Each teacher has a teaching assistant who provides linkage between the class and residential life, assisting students in study hall in the evenings. Class size is limited to 16 students, and learning experiences are planned to be appropriate for high ability students.

WHERE WILL I STAY, AND WHAT WILL I DO WHEN NOT IN CLASS?

The residential component is an integral part of the learning experience at VAMPY. You will live in an air-conditioned residence hall with residential counselors who will be involved in activities with you and your fellow campers when you are not in class. In the evenings and on weekends, you will participate in a variety of cultural, educational, and recreational activities which include cookouts, a dance, and a talent show as well as individual and team sports, games, and crafts. There will be many opportunities for you to enjoy getting to know young people with similar abilities and interests. You will have access to Western's recreational and library facilities. Laundry facilities are available.

HOW MUCH DOES THE PROGRAM COST?

The registration fee of \$2,700 includes room and board, the instructional program, books, and most activities outside of class. A limited amount of financial aid is available to students on the basis of need. Your VAMPY application must have been submitted with a deposit to apply for financial aid. Financial aid applications are due on or before April 1, 2013. Contact The Center for Gifted Studies to request a financial aid application.

HOW DO I APPLY?

1. You must (a) be completing the 7th-10th grade this year and (b) have earned SAT or ACT scores as a 7th grader (or comparable scores for an older student) qualifying you for the class selected.
2. You must submit (a) the completed application form, (b) a photocopy of your SAT or ACT report, and (c) a \$300 deposit that is not refundable once you are accepted. Make checks payable to The Center for Gifted Studies. The balance of your registration fee (\$2,400) will be due on or before June 1, 2013; and this fee is nonrefundable.
3. VAMPY is planned for 240 participants. Qualified participants will be accepted in the order applications are received, according to class preference.

Send applications and requests for further information to

The Center for Gifted Studies
Western Kentucky University
1906 College Heights Boulevard #71031
Bowling Green, KY 42101-1031

Phone: 270.745.6323
FAX: 270.745.6279
Email: gifted@wku.edu
www.wku.edu/gifted/

2013 Summer Program for Verbally and Mathematically Precocious Youth

Student Full Name _____ Preferred Name _____

Date of Birth ___ / ___ / ___ Gender M or F Grade in 2012-2013 _____

School _____ School District _____

Permanent mailing address _____

number street apartment number

city state zip Students Email _____

Home Phone (___) _____ Cell Phone (___) _____

Mother/Guardian _____ Father/Guardian _____

employer employer

occupation occupation

address (if different from student) address (if different from student)

home phone business phone home phone business phone

email cell phone email cell phone

Has the student or anyone in the family participated in any of our programs? ___ Yes ___ No Please list by participant and program.

I give permission for my local newspaper to be notified of my child's participation in VAMPY at Western Kentucky University:

___ Yes ___ No Name of newspaper: _____

Can the student participate in normal physical activities? ___ Yes ___ No (If no, explain on an attached sheet.)

SAT Scores: SAT-M _____ SAT-CR _____ SAT-W _____ Date Taken _____

ACT Scores: ACT-M _____ ACT-ENG _____ ACT-S _____ ACT-R _____ Date Taken _____

Class Selection: 1st Choice _____

2nd Choice _____

3rd Choice _____

Deposit of (\$300):
Check #: _____

T-Shirt size (adult): S M L XL XXL

Signature of Parent or Guardian

Signature of Student



An additional check made out to the WKU Foundation/Talent Development is enclosed.
Tax-deductible donations provide scholarships for children who cannot otherwise participate.

Amount of donation: \$ _____ Thank you!

2013 VAMPY CLASSES

Below you will find descriptions of the classes offered during VAMPY 2013. After reading the descriptions and noting the qualifying SAT or ACT score(s) for each class, please write the name of your first, second, and third choices in the spaces provided on the application. **It is important that your choices are classes which interest you and to which you are willing to give your best effort for three weeks. If your first choice is filled, you will be placed in the next available choice.**

ARABIC, Lhousseine Guerwane

Arabic is the language of nearly 300 million people, and Arab culture is one of the oldest and richest cultures on earth. This class will introduce students to the Arabic language including writing and reading the Arabic alphabet, as well as Arab culture, art, food, celebrations, and music. In this lively class of hands-on activities and engagement, students will explore the strong cultural ties between Western and Arab cultures and learn about the modern Arab world.

Qualifying Scores: SAT-M \geq 520 or SAT-CR \geq 510 or ACT-M \geq 20 or ACT-ENG \geq 20 or ACT-S \geq 21 or ACT-R \geq 21.

ASTRONOMY, Ashley Murphy

This course includes historical, practical, and theoretical applications of astronomy. Students will learn to use their own 76-mm Celestron reflecting telescopes and, in nighttime observing sessions, learn the basics of the night sky: constellations, planets, meteors, and other observational phenomena. During the day, students will study solar astronomy and navigation and lead discussions on astronomical size and scale, the purpose and priorities of a national space program, and the structure and future of our universe. Students will have access to university resources, such as large telescopes, rooftop and remote observatories, and the Hardin Planetarium. *There is an additional \$100 charge for the telescope included with this course.*

Qualifying Scores: SAT-M \geq 520 or SAT-CR \geq 510 or ACT-M \geq 20 or ACT-ENG \geq 20 or ACT-S \geq 21 or ACT-R \geq 21.

CHEMISTRY, Deanna Lively

This class is designed to introduce students to the scientific detail of everyday chemical phenomena. Topics to be considered will include organic, inorganic, polymer, and physical chemistry. In addition, students will learn fundamental chemical nomenclature and calculations. The course will include both laboratory and lecture material, emphasizing hands-on laboratory experiences. **Students selecting this course must have completed the equivalent of Algebra I.** Students should bring a calculator with an exponential function key.

Qualifying Scores: SAT-M \geq 520 or SAT-CR \geq 510 or ACT-M \geq 20 or ACT-ENG \geq 20 or ACT-S \geq 21 or ACT-R \geq 21.

CHINESE, Winny Lin

This class will give students a basic understanding of China, a major player on the world stage. Students will be introduced to simple Mandarin Chinese words and phrases, pinyin, character writing, and, ultimately, they will give a self-introduction in Chinese with good pronunciation. Through discussions, skits, guest speakers, movies, field trips, and collaborations with other classes, this class will explore Chinese history, religion and philosophy, visual arts, music, classic and modern literature, and U.S.-Chinese relations. Students will also engage in Chinese calligraphy, brush painting, dances, games, and cooking.

Qualifying Scores: SAT-M \geq 520 or SAT-CR \geq 510 or ACT-M \geq 20 or ACT-ENG \geq 20 or ACT-S \geq 21 or ACT-R \geq 21.

FORENSIC CHEMISTRY, Susan Morgan

This course is an investigation into the methods employed by the forensic chemist. Students will analyze crime scene simulations and explore the evolution of forensic chemistry in the last century. Laboratory topics include forensic odontology and anthropology; serology; toxicology; DNA and fingerprint analysis; arson, firearm, and explosives investigation; document, hair, fiber, and paint microscopy; and forensic entomology. Discussions will explore the depiction of forensics in contemporary media and an ethical decision-making model concerning the fate of a serial killer. Because the topics will be of a mature nature and the science more in depth than middle school forensic camps, **students must have completed first-year chemistry in school or at VAMPY to be eligible.**

Qualifying Scores: SAT-M \geq 520 or SAT-CR \geq 510 or ACT-M \geq 20 or ACT-ENG \geq 20 or ACT-S \geq 21 or ACT-R \geq 21.

GENETICS, Mary Ellen Lohr

Students will be introduced to basic concepts in genetics, evolutionary biology, and developmental biology with emphasis on correspondence among these fields. The course will incorporate lecture, laboratory, and simulations on the following topics: the molecular basis of heredity, classical genetics, population genetics, developmental biology, and molecular biology.

Qualifying Scores: SAT-M \geq 520 or SAT-CR \geq 510 or ACT-M \geq 20 or ACT-ENG \geq 20 or ACT-S \geq 21 or ACT-R \geq 21.

HUMANITIES, Tracy Inman

The concept of an afterlife is universal. In fact, it is so important to people throughout the ages that their art, literature, philosophy, even their music, reflect their beliefs. By exploring the afterlife, the student will analyze the changing interpretations and philosophies of different generations, different cultures, and different times. Through classical works by such greats as Virgil, Dante, Milton, and Sartre, the student will explore, interpret, and appreciate not only the literature and the humanities themselves, but also the age reflected in them.

Qualifying Scores: SAT-M \geq 520 or SAT-CR \geq 510 or ACT-M \geq 20 or ACT-ENG \geq 20 or ACT-S \geq 21 or ACT-R \geq 21 or SAT-W \geq 500.

MATHEMATICS, Jane Brantley (This is not a lecture class.)

Each student in this class will have the opportunity to study mathematics starting at his/her own level of mastery. Students with the proper preparation may study Algebra I, Geometry, Algebra II, Precalculus, Calculus I, Calculus II, Calculus III, or Discrete Mathematics. Students will be pretested to ensure proper placement. Emphasis will be on the logical sequence of concepts and skills rather than

memorization of facts and formulas. Instruction is individualized, and students work independently at their own pace. Students move to new chapters as they demonstrate mastery by scoring at least 80% on chapter tests. Students must enjoy mathematics and be able to work independently to gain the most from this class.

Qualifying Scores: SAT-M \geq 520 or ACT-M \geq 20.

NAZI GERMANY AND THE HOLOCAUST, Ron Skillern

This class chronicles Adolf Hitler's early life, his rise to power and his policy of anti-Semitism, focusing on how the members of the Nazi Party saw themselves and the role of propaganda in molding popular opinion. The class will employ a variety of activities and teaching methods: lecture, discussion, video, primary documents, debate, mock trial, library research, and guest speakers. The course will conclude with an examination of present-day manifestations of racism in both America and Europe. *A one-day field trip to the Holocaust Museum in Washington, DC, is planned which will require an additional \$300 per student.*

Qualifying Scores: SAT-M \geq 520 or SAT-CR \geq 510 or ACT-M \geq 20 or ACT-ENG \geq 20 or ACT-S \geq 21 or ACT-R \geq 21.

PHYSICS, Kenny Lee

Students will be introduced to the basic concepts of Newtonian mechanics as well as light and optics. The emphasis will be two-fold: development of the concepts will be stressed as will development of skills in mathematical problem-solving. Practical application will be emphasized through student involvement in laboratory experiments and demonstrations. **Students selecting this course must have completed the equivalent of Algebra I** and should bring a scientific calculator capable of calculating sine, cosine, and tangent. (The package will usually be labeled "scientific.")

Qualifying Scores: SAT-M \geq 520 or ACT-M \geq 20 or ACT-S \geq 21.

PRESIDENTIAL POLITICS, Dennis Jenkins

This class will explore a variety of issues and decisions that American presidents have faced since George Washington. An emphasis will be given to some of the more pivotal decisions, events, and elections that have impacted our nation's history during the last 50 years from the presidency of John Kennedy through President Obama. The class will debate issues that our former and modern presidents have dealt with. Students will participate in debates, role-plays, and individual projects that will enhance their knowledge of presidential policies with the goal of improving student's analytical and critical thinking skills.

Qualifying Scores: SAT-M \geq 520 or SAT-CR \geq 510 or ACT-M \geq 20 or ACT-ENG \geq 20 or ACT-S \geq 21 or ACT-R \geq 21.

PROBLEMS YOU HAVE NEVER SOLVED BEFORE, Catherine Poteet and Amar Patel

Have you ever had to build a boat out of concrete? Mail a potato chip? Find a way to clean polluted water? Drop an egg with only a few sheets of paper to safely catch it as it hits the ground? This class is designed to stretch your problem-solving and creative thinking skills. You will be required to solve unique, real-world related problems, and then communicate your processes and findings. **Students selecting this course must have completed the equivalent of Algebra I.**

Qualifying Scores: SAT-M \geq 520 or ACT-M \geq 20 or ACT-S \geq 21.

STEAM LABS™, Nielsen Pereira

People around the world now design and build Rube Goldberg®-style machines to satisfy society's fascination with the creative contraptions. Apply the engineering design process to construct STEAM Machines™ (chain reaction machines that run on Science, Technology, Engineering, Arts, and Math concepts) using everyday objects and technology such as motors, sensors, and micro-controllers. You will learn real-world engineering skills, gain experience with systems thinking and multi-team collaboration, and start exploring pathways to better understand careers in engineering.

Qualifying Scores: SAT-M \geq 520 or SAT-CR \geq 510 or ACT-M \geq 20 or ACT-ENG \geq 20 or ACT-S \geq 21 or ACT-R \geq 21.

SUSTAINABILITY, Jennifer Sheffield and David Baxter

Sustainability is much more complex than simply adding the buzzword "green" in front of our lifestyle choices. As the population of our planet tops seven billion people, we must consider the social, economic, and environmental implications of our everyday decisions and the effects they have at personal, local, and global levels. Explore how the interplay between patterns of human consumption, natural resource management, economic systems, and cultural norms are shaping our world. Students will increase their awareness of sustainability issues through readings, discussions, documentaries, site visits, and student presentations and projects.

Qualifying Scores: SAT-M \geq 520 or SAT-CR \geq 510 or ACT-M \geq 20 or ACT-ENG \geq 20 or ACT-S \geq 21 or ACT-R \geq 21.

WORLD BIOGRAPHIES, Jonathan Vaughn

The goal of this class is to help students develop a stronger sense of history, major historical events, and the people involved in them by examining the lives of notable individuals who have shaped a culture, a nation, or the world. We will discuss the issues, challenges, social and cultural shifts, and developments these individuals faced and focus on how they worked through obstacles to make a lasting impact. The class will also include a one-day field trip to the Abraham Lincoln Presidential Library and Museum in Springfield, Illinois.

Qualifying Scores: SAT-M \geq 520 or SAT-CR \geq 510 or ACT-M \geq 20 or ACT-ENG \geq 20 or ACT-S \geq 21 or ACT-R \geq 21.

WRITING, Lisa Logsdon

This class is designed to develop writing and thinking skills in a studio-like setting. It emphasizes the writing process – forming ideas, drafting, and revising – as well as frequent individual and group conferences, reading and writing workshops, discussions, mini-lessons, and writing. Several writing assignments will be prompted by readings, videos, and field trips. Opportunities to write will vary in purpose and form, ranging from expressive to informative, literary, and persuasive writing. Students will learn to develop and document their ideas by analysis of personal experience, review of library sources, and judicious use of the Internet.

Qualifying Scores: SAT-CR \geq 510 or SAT-W \geq 500 or ACT-ENG \geq 20 or ACT-R \geq 21.

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Bowling Green, KY 42101-1031

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Learn More About VAMPY on the Camp Blog!
Visit <http://www.vampyblog.org>

STUDENT OPPORTUNITIES SPONSORED BY
The Center for Gifted Studies
Western Kentucky University

Travel in France *May 27 - June 5, 2013*

Eighth grade and high school honors students will explore the history, pageantry, and culture of France during this travel/study tour. Sites in and outside of Paris will be visited, and interested adults are welcome.

Summer Camp for Academically Talented Middle School Students (SCATS) *June 9 - 21, 2013*

This two-week residential or nonresidential camp provides a wide range of classes for academically talented students currently in sixth through eighth grades.

The Summer Camp *July 15 - 19, 2013*

This day camp is for children currently in grades one through four. Hands-on, minds-on instruction will engage these students in learning at high levels.

Fall Break in Germany *October 4 - 13, 2013*

This travel/study tour is an opportunity for eighth grade and high school honors students as well as interested adults to spend fall break learning about the history, culture, and people of Germany.

Fall and Winter Super Saturdays *Dates to be announced*

Saturday classes allow high-ability and high-interest first through eighth graders to broaden the scope of their interests and interact with other bright young people on WKU's campus and at the Kentucky Science Center (formerly the Louisville Science Center).

TO VIEW A VIDEO ON SCATS AND VAMPY, VISIT OUR WEBSITE: WWW.WKU.EDU/GIFTED