

WKU

The Center for Gifted Studies



The Summer Program for
Verbally and Mathematically Precocious Youth

June 24 through July 14, 2012

2012 Summer Program for Verbally and Mathematically Precocious Youth

Full Name _____ Preferred Name _____

Date of Birth ____/____/____ Gender Male or Female Grade in 2011-12 _____

School _____ School District _____

Permanent mailing address _____
number street apartment number

city state zip email _____

Mother/Guardian _____ Father/Guardian _____

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

home phone cell phone home phone cell phone

employer employer

occupation occupation

email address business phone email address business phone

Have you or any one in your family participated in any of our programs? Yes No Please list by name 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 you participate in normal physical activities? Yes No If not, explain on an attached sheet.

Ethnic Origin (voluntary ~ for record keeping purposes only)

___ White ___ Black/African-American ___ American Indian or Alaska Native
___ Asian ___ Hispanic or Latino ___ Native Hawaiian or Other Pacific Islander

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):
Enclosed: _____

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!

2012 VAMPY CLASSES

Below you will find descriptions of the classes offered in VAMPY for 2012. 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.**

ASTRONOMY, Catherine Poteet

This course includes historical, practical, and theoretical applications of astronomy. Students will construct their own 60-mm refracting 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 materials for the telescope.

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

China has become a major partner of the United States in global trade, science, education, and many other fields. To understand this world power and partner, it is imperative to learn how Chinese think. This class will introduce the basics of Mandarin, spoken by 1.3 billion Chinese, and engage students in Chinese music, movies, arts, 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.

ECOLOGY AND FIELD BIOLOGY, Albert Meier, Scott Grubbs, and Ouida Meier

John Muir said: "Tug on anything at all and you'll find it connected to everything else in the universe." Ecology is a science of connection. In this course, you'll learn some of the major principles of ecology and work with them in a field setting at the Upper Green River Biological Preserve in Hart County, Kentucky. The class will incorporate lecture, labs, discussion, and substantial time in the field hiking, wading, and designing short experiments. The experience will include writing scientific research papers collaboratively. Students must be physically fit and ready to face the rigors of a field experience in rugged conditions. A background in basic biology is recommended. There is an additional \$50 lab fee to help cover travel and field materials.

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 philoso-



phies 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. Please indicate the desired subject on the application. 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 (an additional \$300).

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. (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, beginning with George Washington and continuing through Barack Obama. An overview of each presidency will be presented with emphasis on some of the more pivotal decisions, events, and elections. The class will debate important issues with which our presidents have dealt, and we will take a close look at the 21st century presidency by examining current topics. Students will learn through debates, role-plays, lectures, discussions, videos, and primary documents as well as group and individual 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.



RUBE GOLDBERGINEERING, Nielsen Pereira

Do you enjoy building machines and inventing new solutions to problems? Come join a design team to brainstorm and build creative contraptions to solve everyday problems in a complex way. Use hands-on learning to emphasize science, technology, and engineering concepts. In this class, you will learn about the engineering design process and design and build your own Rube Goldberg machine.

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, David Baxter and Jennifer Smith

Today's generation has the power to affect positive change for the future. As the population of our planet tops seven billion people, we must consider the social, economic, and environmental implications of our everyday choices. Through readings, debates, documentaries, site visits, and sustainable design/build projects, students in this course will investigate innovative solutions to global issues. Topics will include patterns of human consumption, energy management, conservation, housing, and food production.

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, Two Sections, Lisa Logsdon and Audrey Harper

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.

WKU'S SUMMER PROGRAM FOR VERBALLY AND MATHEMATICALLY PRECOCIOUS YOUTH

June 24 - July 14, 2012

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:

ASTRONOMY

CHEMISTRY

CHINESE

ECOLOGY AND FIELD BIOLOGY

FORENSIC CHEMISTRY

GENETICS

HUMANITIES

MATHEMATICS

NAZI GERMANY AND THE HOLOCAUST

PHYSICS

PRESIDENTIAL POLITICS

RUBE GOLDBERG ENGINEERING

SUSTAINABILITY

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 \$2,400 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 to apply for financial aid. Financial aid applications are due on or before April 1. Contact The Center for more information.

HOW DO I APPLY?

1. You must (a) be completing the 7th-10th grade this year, (b) have been eligible for a talent search (for example, the Duke Talent Identification Program) in 2009, 2010, 2011, or 2012 and (c) 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 (\$2,100) will be due on or before June 1, 2012; and this fee is nonrefundable.
3. VAMPY is planned for 220 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/

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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 to England May 28 – June 6, 2012

This travel/study tour is for eighth grade and high school honors students as well as interested adults. We will learn about the history, culture, and people of England.

Summer Camp for Academically Talented Middle School Students (SCATS) June 10 – 22, 2012

This two-week residential or nonresidential camp provides a wide range of classes for academically talented students who are completing the sixth, seventh, and eighth grades. This year will be the 30th for SCATS.

Summer Program for Verbally and Mathematically Precocious Youth (VAMPY) June 24 – July 14, 2012

Students currently enrolled in grades seven through ten can qualify for VAMPY by taking the ACT or SAT as a seventh grader and scoring at or above the average for college-bound seniors. In this three-week residential summer program, students spend six hours a day in a challenging, hands-on, minds-on academic environment.

Fall Break in Scotland and Ireland September 28 - October 7, 2012

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 Scotland and Ireland.

Fall and Winter Super Saturdays Dates to be announced

Saturday classes provide opportunities for high ability or high interest students in grades one through eight to broaden the scope of their interests and interact with other bright young people. Classes emphasize a hands-on, minds-on approach to learning.

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