WESTERN ILLINOIS UNIVERSITY

Study Abroad & Outreach
1 University Circle
Macomb, IL 61455-1390

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An Exciting Experience for Girls Ages 11 to 13

Girls Plus Math

July 17-22, 2016

Come and Explore the World of Mathematics—Beyond the Standard Curriculum—in a Cooperative Learning Environment

WESTERN ILLINOIS UNIVERSITY

General Information

REGISTRATION: Enrollment is limited; Girls Plus Math accepts only 24 participants. Please register early; students are admitted on a first-come, first-served basis. The registration fee is $499 and includes tuition, classroom supplies, extracurricular activities, and complete room and board. Commuter students are not accepted. A limited number of sponsorships will be awarded. To request a sponsorship application, please contact our office at **(309) 298-1911**. Parents who wish to use a ***payment plan*** may send a $100 deposit at the time of registration, up to 60 days before the program start date. Fifty percent of the registration fee is due at 60 days prior to the program and full payment is due 30 days before the start of the program.

Register online or mail the attached registration form with check (made payable to Western Illinois University) or credit card information to: **Study Abroad and Outreach-HH8, Western Illinois University, 1 University Circle, Macomb, IL 61455-1390.** You may fax your registration with credit card information to **(309) 298-2226**. Please duplicate the registration form for additional registrations or register online at wiu.edu/summeryouth.

ACCOMMODATIONS: Participants will stay in cabins at Western's Horn Field Lodge campus. They will enjoy extracurricular activities such as swimming, indoor and outdoor games, movies, and crafts. Students will be supervised by faculty and carefully-selected resident counselors to ensure a safe and enjoyable time on the Western campus.

MEDICAL: Students do not qualify for University health care, so parents should check family insurance policies for health and accident coverage.

ADA COMPLIANCE: Western Illinois University is in compliance with the Americans with Disabilities Act of 1990. Please let Study Abroad and Outreach know of any special needs students may have at least two weeks prior to the program start date. Our toll free number is **(866) 933-8964**. The office phone number is **(309) 298-1911**.

REFUND POLICY: Western Illinois University reserves the right to withdraw a program because of unforeseen circumstances or insufficient enrollment. If a program is withdrawn, participants will be notified and fees will be refunded. A $50 fee will be charged to participants who cancel after July 1, 2016. **No refunds will be made on or after Wednesday, July 13, 2016.**

FURTHER INFORMATION: For further information call Study Abroad and Outreach toll free at **(866) 933-8964** or at **(309) 298-1911**.

Girls Plus Math

Why Girls Plus Math?

Test results indicate a 13:1 ratio of boys to girls who score at least 700 out of 800 on the mathematics section of the SAT. Gender-related differences with regard to mathematics study begin to manifest themselves in middle-school children. Studies indicate that females perceive mathematics as less useful to them and to their futures than do males.

The Program

Girls Plus Math provides a stimulating and supportive environment, free of gender-based stereotypes. It promotes interest in mathematics, a willingness to take risks in analysis, and the self-confidence and motivation to persist in problem solving. The Girls Plus Math program admits only 24 students each year; this allows our faculty to help each girl develop her own potential individually.

Participants will explore critical thinking skills, web page creation, and computer software along with mathematical concepts and equations throughout the week. Morning activities will include estimation and critical thinking exercises, biographies on women who have excelled in math and science, and introductions to various math concepts, including linear equations, polynomials, graphing, and Pascal's Triangle. In addition, students will explore Venn diagrams, quadratic equations, polyhedra, and Polynomiography. Hands-on components will include building a tetrahedral kite, origami, and various games that foster critical thinking skills.

Facilities

Participants will receive morning instruction in the 14,000 sq. ft. Multicultural Center. The Multicultural Center was officially opened in August 2009 and houses the Women's Center, Gwendolyn Brooks Cultural Center, and the Casa Latina Cultural Center. This building is centrally located on campus and is an environmentally-friendly building.

Western received a $100,000 grant from the Illinois Clean Energy Community Foundation to defray costs associated with acquiring LEED (Leadership in Energy and Environmental Design) Silver Certification for the center, and received grant funding to install a geothermal heating and cooling system. The building includes a vegetative roof consisting of seven species of sedum plant materials and energy-efficient fluorescent lighting.

Special Features

The Western Illinois University Department of Mathematics coordinates the instructional portion of the program. In addition to the academic and recreational activities, the girls will use graphing calculators from Texas Instruments. They also will use computer technology to build their own web pages. Western's laboratories, computer facilities, and technological resources provide exciting hands-on experiences and unique exposure to the university environment. In addition, a number of professionals visit the program to describe how they use math in their work and how they became interested in pursuing their particular careers.

During the week, participants will be introduced to Polynomiography computer software. This software allows users to create art through mathematical equations. In addition, the program offers a blog, and each participant has a linked page which allows her to post photos, updates, and other information. This personal blog allows parents the opportunity to follow along with their child's progress throughout the week.

Program Goals

Using the most up-to-date teaching methods, materials, and technology, the week-long program seeks not simply to teach "more math," but to demonstrate the relationship of math to many different areas of life, to explore math beyond the limitations of the standard curriculum, and to enhance student self-esteem and problem-solving capabilities.

Participation Criteria

Female students must be 11-13 years of age. Gifted status or minimum qualifying scores on standardized tests are not requirements. Neither is this a remedial program. Participants should have sufficient curiosity, motivation, achievement level, and maturity to benefit from the program. Students must be recommended for the program by a teacher or school administrator by means of a signature on the registration form. A recommendation to the program does not guarantee acceptance; recommended students are admitted on a first-come, first-served basis.

Sponsors

Western Illinois University
School of Distance Learning, International Studies, and Outreach
Department of Mathematics

Western Illinois University complies with all applicable federal and state nondiscrimination laws, orders, and regulations. The university is an affirmative action and equal opportunity institution and affirms its commitment in all programs and activities to nondiscrimination on the basis of race, color, religion, sex, age, sexual orientation, marital status, disability, national origin, and status as a disabled veteran or Vietnam Era veteran.

For more information about Girls Plus Math, check us out at wiu.edu/summeryouth.

Registration – Girls Plus Math
July 17-22, 2016

Student Name _____

Address _____

City/State/Zip Code _____

Phone Number (include area code) _____

E-Mail _____

Age _____ January 2016 Grade _____ Adult T-Shirt Size _____

Cabin Mate Preference, if any (Students MUST request each other.) _____

How did you hear about the program? _____

1. This student is sufficiently mature to benefit from this program, to observe campus rules, and to live under supervision in a campus environment.
2. I understand and accept all program policies and conditions as set forth in this brochure.

Parent or Guardian Signature _____

Parent or Guardian Name (printed) _____

This student meets the participation criteria for the **Girls Plus Math** program. I hereby recommend the student for acceptance.

Instructor Signature _____

Instructor Name (printed) _____

Title _____ School/City/State _____

Phone Number (include area code) _____ E-Mail _____

You may also register online by visiting **wiu.edu/summeryouth**.

Please make check payable in the amount of $499 to **Western Illinois University** or pay by credit card:

❑ Visa ❑ MasterCard ❑ Discover

Card No. _____ Exp. Date _____ CV Code (3 digits) _____

Authorized Signature _____