Girls Solve It! With Mathematical Biology

STEM summer day camp for high school girls entering grades 11 or 12 in Fall 2017

Monday, June 19–Friday, June 23, 2017

One week that could change your life
During your week on the University of Minnesota Twin Cities campus, you will experience campus life and explore mathematical biology through activities such as: hands-on activities, science and technology demonstrations, group work, campus, residential life, and lab tours, as well as lectures.

Mathematical models are often used to help understand and predict biological processes. In this program, we will introduce the role of mathematical modeling in the study of biology and the treatment of disease. Topics may include: designing radiation schedules in cancer treatment using mathematical models, analyzing flu epidemic data from the CDC and optimal designing vaccination policies, predicting the spread of infectious diseases through a network of relationships, and predicting the dynamics of predator-prey populations in a national park.

Girls Solve It! is a non-residential week-long day camp. Students will be on campus from 9 a.m.–4 p.m., Monday, June 19 - Friday, June 23, 2017.

Cost
Thanks to the generosity of 3M and an anonymous private donor, we are able to offer Girls Solve It! to admitted students for a $50 enrollment fee and full scholarships are available upon request to admitted students demonstrating financial need. The enrollment fee will only be collected from students upon admittance into Girls Solve It! (see “Application Information” below for details).

Application Information

Admission to Girls Solve It! will be on a first-come, first-served rolling basis. Applications will be considered received on the date they are postmarked. A waiting list will be started if program capacity is reached before the final deadline of Friday, April 21, 2017. Students will be notified of their admission status no later than Friday, May 5, 2017.

Upon admission, students will have 10 business days to confirm their enrollment by submitting their release forms and a $50 enrollment fee. Scholarships are available upon request to admitted students demonstrating financial need.

Eligibility criteria
• High school girls entering grades 11 or 12 in fall 2017
• Have completed one year of high school equivalent algebra
• Interest in learning about mathematical biology

Application submission requirements
Submit the complete application packet in a single envelope by mail postmarked on or before Friday, April 21, 2017. Applications not submitted in this format may not be accepted.

Complete application packets include four documents:
1. Completed application form. See form on back.
2. Most recent high school transcript. Unofficial copies are acceptable.
3. Letter of recommendation printed on school letterhead from a science, technology, engineering, or mathematics teacher or high school counselor. Guidelines for recommenders are below.
4. Typed personal statement responses. Personal statement prompts are below.

Guidelines for recommenders
Printed on school letterhead, in one page or less, please address the applicant’s:
• STEM aptitude and interest
• Maturity/personal responsibility
• Motivation/self-reliance

Personal statement prompts
All three to be completed by the applicant:
1. In less than 10 bullet points, list your previous and current extracurricular experiences and interests in science, technology, engineering, or mathematics.
2. In 250 words or less, relate how your identity and experiences have affected your ability to achieve your academic and career goals in science, technology, engineering, or mathematics.
3. In 2–4 sentences, explain what you are hoping to gain from participating in Girls Solve It!

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3M
cse.umn.edu/girlssolveit
Submit the complete application packet in a single envelope by mail postmarked on or before Friday, April 21, 2017. Applications not submitted in this format may not be accepted. Complete application packets include four documents: 1) a completed application form, 2) applicant’s most recent high school transcript (unofficial copies are acceptable), 3) a letter of recommendation printed on school letterhead from a science, technology, engineering, or mathematics teacher or high school counselor, and 4) typed personal statement responses (see personal statement prompts on back.)

Submit completed applications to:
University of Minnesota, College of Science and Engineering Student Services
Attention: Kelsi Klaers, 105 Lind Hall, 207 Church St. S.E., Minneapolis, MN 55455

Applicant’s first and last name
Parent/guardian’s first and last name

Street address

City State Zip code

Applicant’s telephone number
Parent/guardian’s telephone number

Applicant’s email address
Parent/guardian’s email address

In Fall 2017, applicant will be in grade: □ 11 □ 12

School name School city

Optional Demographic Information

Applicant gender (write-in)

Ethnicity of applicant
- African/African-American
- Asian/Pacific Islander
- Caucasian
- Other, not of Hispanic origin _______________________

(Reporting ethnicity is voluntary; we use this data to describe the profile of our students in grant proposals and statistical reports.)

Applicant’s father’s highest level of education
- High school diploma or GED
- Associate degree
- Bachelor’s degree
- Master’s or doctorate degree
- Other ____________________________

Applicant’s mother’s highest level of education
- High school diploma or GED
- Associate degree
- Bachelor’s degree
- Master’s or doctorate degree
- Other ____________________________

UNIVERSITY OF MINNESOTA

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