Girls Solve It! With Mathematical Biology
STEM summer day camp for high school girls entering grades 11 or 12 in Fall 2016

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 lab experiments, science and technology demonstrations, 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 Aug. 8–12, 9 a.m.–4 p.m.

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, May 6, 2016. Students will be notified of their admission status no later than Friday, June 10, 2016. 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 2016
• 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, May 6, 2016. 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 or report card. 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 experiences and current 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!
Submit the complete application packet in a single envelope by mail postmarked on or before Friday, May 6, 2016. 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 or report card (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 2016, applicant will be in grade:  □ 11  □ 12

School name  School city

Optional Demographic Information

Applicant gender (write-in)

Ethnicity of applicant

☐ African/African-American  ☐ Alaskan/American Indian
☐ Asian/Pacific Islander  ☐ Chicano/Latino
☐ Caucasian  ☐ Other Hispanic
☐ 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