



APPLICATION PROCEDURE

PROGRAM DIRECTOR

Dr. Viji K. Sundar, an enthusiastic and energetic Math Professor at CSU Stanislaus, has pioneered innovative programs in Mathematics for students and teachers. She has been recognized for her many contributions to math education. She has received the prestigious Progress in Equity (PIE) Award from AAUW; 2008 Stanislaus County Outstanding Woman of the Year Award, CSU Outstanding Professor Award.



WHAT YOU WILL DO AT THE ACADEMY

Each day will start with “recreational” mathematics. Then you will experience mathematical modeling with the assistance of spreadsheets. You will work together in groups to solve problems such as:

- How a drug dissipates in a person’s system
- The month to month results in paying off loans or building annuities
- The interaction between waters in lakes as pollution spreads

Afternoons will be spent building robots and training them to accomplish tasks, like dancing or rescuing an “earthquake victim”, you will select yourselves. You will have the opportunity to hear special speakers talk about mathematical modeling.

ELIGIBILITY REQUIREMENTS

Females who have completed Algebra II by June 2008 and who are entering the 3rd or 4th year of high school in September 2008.

Forms available at the PWMMR link:
<http://web.csustan.edu/math/proj1.htm>

Applications will be accepted until filled, apply early! Acceptance Notification will be sent within 2 weeks of application.

-  Completed application and parent consent form
-  A one-page essay on why you would like to participate
-  Your current grade report

What past participants have noted:

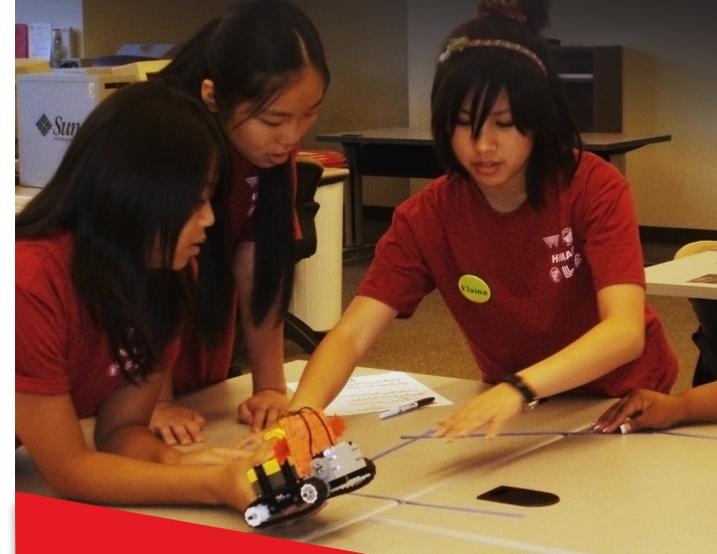
- ‘Most school math is an individual thing. It was nice to have multiple thought processes and ways of thinking.’*
- ‘I didn’t know how math could be applied to life, history, politics, etc. It was a new way to look at math.’*
- ‘I really enjoyed being able to use computers and Excel to apply mathematics to the real world.’*
- ‘I love mind-boggling tricks that make sense from a mathematical standpoint.’*
- ‘I learned how to trick my friends and family and I definitely enjoyed shortcuts to certain riddles or addition and multiplication problems.’*

Send completed application to:

Rita L Glynn
Office of Mathematics Grants | CSU Stanislaus
One University Circle | Turlock, CA 95382
FAX: 209-667-3848 | Phone: 209-667-3780
Email: rglynn@csustan.edu

4th Annual

PREPARING WOMEN FOR MATHEMATICAL MODELING AND ROBOTICS



June 23–27, 2008 | 9 am – 4 pm

MATH/COMPUTER SCIENCE
SUMMER ACADEMY
FOR HIGH SCHOOL GIRLS

Sponsored by Mathematical Association of America
Tensor Foundation

PROGRAM OBJECTIVE

Our goal is to open a door through which the young women in our group will see mathematics, robotics and their applications as the exciting fields that they are: fields that are evolving before our very eyes.



FOR WHOM?

It is for young women about to enter their 3rd or 4th year of high school and have completed at least Algebra II.

WHEN?

The Academy sessions will be held June 23–27, 2008, Monday through Friday, 9 am–4 pm, with follow-up sessions.

WHERE?

The sessions will be held on CSU Stanislaus campus in Turlock, except for field trips.

ACTIVITIES / FIELD TRIPS

The project will have four components:

- An Orientation for parents, participants and mentors on June 21, 2008
- A one-week intensive Summer Math/Computing Academy June 23–27
- One day trip to The Tech Museum of Innovation in San Jose, June 25, 2008
- Reception for participants, parents, and teachers March 2009

DRESS CODE

Students must wear the Academy T-Shirt; black, navy, khaki, white slacks or jeans. Students will be given two T-shirts and a tote bag on the orientation day

STIPEND

Those who complete the program will receive a stipend of \$60.

PROGRAM PRESENTERS

Dr. Jung-Ha An

Assistant Professor of Mathematics; joined CSU Stanislaus in September 2007. Dr. An enjoys conveying the sublime majesty of mathematics to students who always say, “I can’t do math!” Dr. An believes that since most mathematics was created to solve real world problems, one of the best ways to learn math, is to see it in action.



Mr. Sam Dolber

Secondary mathematics teacher and a math consultant for the Central California Mathematics Project, Mr. Sam Dolber will engage and enliven students with recreational mathematics. The number games, puzzles and card tricks will serve as the hooks many need to see the mystery and beauty of mathematics.



Dr. Michael Bice

Assistant professor of mathematics; joined CSU Stanislaus in September 2003. Dr. Bice is an applied mathematician by training, having earned his Ph.D. from UC Santa Barbara. He imparts excitement about applied mathematics to his students by showing how math arises in many diverse situations in our world.



Dr. Megan Thomas

Assistant professor of computer science; joined CSU Stanislaus faculty in September 2005. She spent time as a postdoctoral researcher at Lawrence Livermore National Labs. Students will explore making robots, paving the way for math exploration and computing.

