



*The Montana Learning Center at Canyon Ferry Lake
Helena School District #1
And ExplorationWorks*

Present

Preparing Women for Mathematical Modeling in Montana

An enrichment program for girls entering grades 10, 11, or 12

Sponsored by the Mathematical Association of America Tensor Foundation

When: June 15 – 19, 9 am – 4 pm

Where: Front Street Learning Center in the mornings followed by lunch
ExplorationWorks in the afternoons
Saturday, June 19, at the Montana Learning Center at Canyon Ferry Lake

About the Program: The five-day summer phase of the project will provide

- An introduction to real world problems that can be modeled using difference equations and solved using spreadsheets. Topics include drug dosages and spread of diseases, intervention on species that are over-populated or headed for extinction, building annuities or paying off loans, global warming issues, etc. Local professional women will address these topics.
- A project on building robots using LEGO MINDSTORMS NXT software at ExplorationWorks. This will be enhanced with a special speaker who is an MIT graduate student in engineering and visiting ExplorationWorks through their NASA grant
- A special day at Canyon Ferry Lake for hands-on activities with professionals from the Department of Fish, Wildlife, and Parks.

Fall Activity: Be on a team for the International High School Mathematics Contest in Modeling sponsored by the Consortium for Mathematics and Its Applications (COMAP HiMCM)
<http://www.comap.com/highschool/contests/himcm/index.html>

How to Apply: Application materials and additional information will be available from your high school teacher and at the PWMMM link at www.montanalearning.org. Each application must be accompanied by a letter of support from a high school mathematics teacher, a one-page essay indicating why you wish to participate, and a signed parental form. This program is **FREE** and has a limit of 24 participants, so apply early.

Eligibility Requirements: Young women must have successfully completed Algebra I or Math 1 by June 2010 and be entering 10th, 11th, or 12th grade.

For additional information: Contact Marie Vanisko at mvanisko@carroll.edu or 406-422-5842 or Richard Seitz at Helena High at rseitz@helena.k12.mt.us or 406-443-5181