

Overview

The goals are to implement hands on activities in math and science, to expose young students to engineering concepts, and to provide team work and leadership opportunities. Students may choose to attend either a one-week program or choose to attend both programs during the summer.

Students will get the whole college experience, spending each week living in the CSU residence halls with college student mentors. Limited spots available for middle and high school students from participating school districts listed on the back of this brochure



2009 Summer Camps for Middle School and High School Students

*Artificial Intelligence
Climate Change
Renewable Energy*

**Send complete applications to your
district representative.**

**Adams County 14 Public
Schools:**
Lara Eddy
5291 E. 60th Avenue
Commerce City, CO 80022

Brighton Public Schools:
Cynthia Ritter
18551 E. 160th Avenue
Brighton, CO 80601

Elizabeth Public Schools:
Mary Anne Fleury
P.O.Box 610
634 S. Elbert St.
Elizabeth, CO 80107

Englewood Public Schools:
Scott Wallace
300 W. Chenango Ave.
Englewood, CO 80110

**Gilpin County Public
Schools:**
Alexis Donaldson
10595 Hwy 119
Black Hawk, CO 80403

**Jefferson County Public
Schools:**
Gwen Stroup
1829 Denver West Dr.
Bldg #27
Golden, CO 80401-001

Mapleton Public Schools:
Jackie Kapushion
591 E. 80th Avenue
Denver, CO 80229

Other School Districts:
Aaron Benally
1301 Campus Delivery
Fort Collins, CO 80523

Aaron D. Benally, Program Coordinator
College of Engineering, WMEP
1301 Campus Delivery
Fort Collins, CO 80526
(970) 491-4357, fax (970) 491-3429

Cost

\$350 per week
FREE for participating school districts (see back of brochure)
Scholarship available up to \$300 for limited income families

Experience will include

- Hands-on laboratory experience
- Industrial plant tours
- Informative work sessions with faculty
- Expert advice on applying to college, including seminars on admission requirements, financial aid, and housing
- Residence hall accommodations for five nights (double-occupancy room-just like college students)
- Meals (breakfast, lunch and dinner)
- Supplies
- T-shirt
- Opening and closing reception for students and parents
- Group photo
- Certificate of completion

**Colorado
State
University**



This program is based upon collaborative work supported by a National Science Foundation Grant No. 533421; University of Colorado, Denver. Colorado State University, Thomas J. Siller, Principal Investigator, Michael A. De Miranda, Co-Principal Investigator. Any opinions, findings, conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.



**Colorado
State
University**

College of Engineering and School of Education



Funded by the
National Science Foundation

Summer Program Schedule

July 12-17, 2009

For high school students; grades 9-12 in Fall 2009

July 19-24, 2009

For middle and junior school students; grades 6-8 in Fall 2009

Topic: Artificial Intelligence: Computing, Designing and Robotics

Students will explore the many dimensions of engineering design, programming, and robotics. Students will engage in planning and design, construction, analysis, programming and testing of different elements of smart robots. Students will be challenged to work as a team in building a robot with program staff and college students. This program is designed around informative work sessions, hands-on laboratory experiences, field trips and expert guest speakers. Emphasis of this engineering experience is to demonstrate how math and science are used to create the designed world.



June 14-19, 2009

For middle school students; grades 6-8 in Fall 2009

Topic: Climate Change

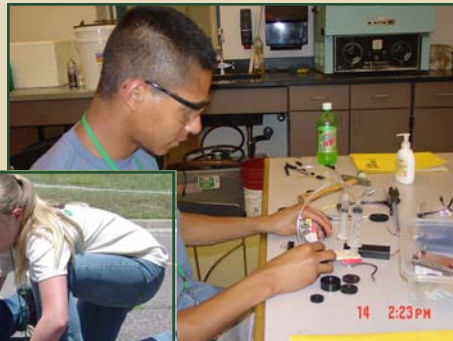
Using an interdisciplinary approach, students will have a chance to become experts on Clouds, Climate and Weather. They will learn how to “do science” by using observations and experiments, and will develop their abilities to critically question topics in weather and climate. Such questions as “Do cities affect the weather?”, “Can it really rain fish and frogs?” and “Hey, what is the greenhouse effect after all?” will be answered. Various learning strategies using art, storytelling, play writing, poetry and video creation will be used to help students discover the secrets. The program’s emphasis is on how exciting and rewarding this area of study can be, and how they can apply their advanced knowledge of Clouds, Climate and Weather in their future.

June 21-26, 2009

For high school students; grades 9-12 in Fall 2009

Topic: Renewable Energy

Students will explore advanced concepts in alternative energy, focused on the future of hydrogen fuel cell technology. They will learn about the engineering and science design challenges faced in bringing solar energy, wind energy, and fuel cell technology into everyday use, and will be challenged in the design, construction and testing of a working hydrogen fuel cell. This session is designed around informative work sessions, hands-on laboratory experience, field trips, and expert guest speakers. The program emphasis is to demonstrate how math and science are used to create the designed world.



Summer Program Application

Preferred Session: June 14-19 June 21-26 July 12-17 July 19-24

Name _____

Address _____

City _____ State _____ Zip code _____

Phone _____ Alt. Phone _____

Date of Birth _____

Parent Email address _____

School & District Name _____

Grade Fall 2008 _____ Current GPA _____

T-Shirt Size (circle one): Child's - S M L Adult's - S M L XL

MSMSP Camp you attended last year (circle one):

CSU Metro Fort Lewis None

Ethnic Background (circle all that apply):

African American Caucasian/White

Asian American Hispanic/Latina

Native American, Tribal Name _____

Other, please specify _____

U.S Citizen (check one): Yes No

If No, are you a U.S resident: Yes No

Gender (check one): Female Male

Check list for a complete application (only complete applications will be considered):

1. _____ Signed application form (please fill in all information above).
2. _____ Letter explaining your wish to participate (address to Aaron Benally).
3. _____ Letter of recommendation from teacher or counselor.
4. _____ Copy of transcript or last report card.

Submit all of the above to your School District's RM-MSMSP Contact Person listed below, no later than April 17, 2009

Adams County 14: Lara Eddy Gilpin County: Alexis Donaldson

Brighton: Cynthia Ritter Jefferson County: Gwen Stroup

Elizabeth: Mary Anne Fluery Mapleton: Jackie Kapushion

Englewood: Scott Wallace

Applicant: I certify that all information is correct and complete.

Signature _____

Date _____

Parent/Guardian: I hereby grant approval for my son/daughter to participate in the 2009 RM-MSMSP summer program.

Signature of parent/guardian _____

Date _____

For more information, contact Aaron Benally at
Aaron.Benally@Colostate.edu