



Peaks & Potentials

A Unique Campus Experience

For students entering
grades 5, 6 and 7
in Fall 2009

June 21-26, 2009
Montana State University
Bozeman campus



MONTANA
STATE UNIVERSITY

EXTENDED
UNIVERSITY



The Extended University Office of Continuing Education is proud to offer Peaks & Potentials to Montana youth. Now in its 26th successful summer, this experience is designed to give high-ability/high potential students in grades 5-7 (Fall 2009) the opportunity to explore special topics of interest and work with experts in various subject areas. A recommendation from an appropriate school official is required for the student's acceptance.

Instructors are MSU faculty members, students and experienced professionals from the area. University students and professionals act as directors and counselors throughout the week. Students have the option of staying overnight in the dorms on campus or commuting back and forth from home each day. All classes emphasize personal instruction and small group interaction and a "hands-on" experiential approach. Academic, recreational and social activities offer students a chance to interact with their peers and sample campus life.

Dates

Peaks & Potentials is June 21-26, 2009. Check-in, orientation (mandatory for all participants and first-year parents), and an ice-cream social are Sunday, June 21, and all workshops and activities begin Monday, June 22. Resident students will need to be dropped off between 5 p.m. and 7 p.m. on Sunday and picked up by 3 p.m. on Friday.

Tuition and Activity Fee: \$272

The tuition and activity fee includes workshop tuition, Change of Pace activity, group activities, evening activities, Sunday ice cream social and a Peaks & Potentials t-shirt.

Resident Meal and Dorm Fee: \$206

The resident meal and dorm fee includes cost of housing for one person in a double-occupancy dorm room for five nights and five breakfasts, five lunches and four dinners in the residence hall cafeteria.

Commuter Meal Fee: \$36

The commuter meal fee includes five lunches in the residence hall cafeteria. The fee does not include breakfast or dinner, but these meals may be purchased during meal hours for \$6.25 and \$8.25 respectively. If community students leave campus for dinner, they are strongly encouraged to return for "Change of Pace" and evening activities. There will be no refunds for students who do not participate in these activities.

Lab Fees

Most workshops have lab fees. Please see the individual workshop descriptions for these fees. These fees cover the costs of supplemental materials required by individual instructors.

Workshop Maximum/Minimum Enrollments

All workshops have a maximum enrollment of 16 and a minimum enrollment of 12; every effort will be made to place participants in their first choices, but all workshops fill on a first-come, first-served basis. If minimum enrollments are not met, the workshop will be canceled and participants will be placed in one of their subsequent choices.

Dorms and Meals

Students will be housed in the North Hedges Dormitory on the MSU campus and will eat all meals at the Miller Dining Hall on the MSU campus.

Deposit and Refund Policy

A non-refundable deposit of \$50 per participant is required to reserve a spot. The balance is due June 1. Cancellations prior to that date will be refunded fees paid, minus the \$50 deposit. No refunds will be given after June 1. A social security number is required to process a refund.

For More Information

Contact the MSU Extended University, Office of Continuing Education at 406-994-6683 or sbyorth@montana.edu for more program or registration information. All program information and a downloadable registration form can be found at <http://eu.montana.edu/peaks>

Return Registration Form and Deposit to:

MSU Extended University, Office of Continuing Education, 204 Culbertson Hall, PO Box 172200, Bozeman, MT 59717-2200; Fax: 406-994-6546

Daily Schedule

7am-8am
Breakfast and
Drop-off for
Commuter Students

8:30am-10am
Workshop One

10:20am-11:50am
Workshop Two

Noon-1pm
Lunch

1:15pm-2:45pm
Workshop three

3pm-5pm
Group Activities
(Fun, high-energy
outdoor activities)

5pm-6pm
Dinner

6pm-7pm
(Structured) free time

7pm-8:15pm
Change of Pace

8:30pm-9:30pm
Evening Activities
(Fun, relaxing, indoor
and outdoor activities)

9:30pm
Pickup for
commuter students

10pm
Curfew and bed for
resident students

PEAKS WORKSHOP ONE—8:30am

A. USI: Underwater Science Investigation

Come and learn about stream systems and the organisms that live in them! You will build an instrument, collect stream water quality measurements, collect aquatic bugs, and learn about stream health.

Lab Fee: \$15.

Brianna Gillund and Janet Lynch, Education and Outreach Specialists – Anasphere, Inc., Bozeman

B. Filmmaking: Summer Time Shorts

Wanna make your own movies? Come join us and learn the basics of making your own films. Learn storytelling, shooting, and editing using digital video cameras and Windows Movie Maker. We'll collaborate together to envision and create our own summer time shorts. In the end, everyone can take home a DVD copy of the film they worked on.

Lab Fee: \$5.

Sarah Smith, Filmmaker – School of Film and Photography, Montana State University, Bozeman

C. Nature Journaling Bird Life

Participants will experience bird watching through sight and sound while learning how to keep a nature journal. Nature journals will include basic sketching techniques as well as descriptive writing. This activity is for nature enthusiasts of all experience levels.

Lab Fee: \$15.

Carrie Ann Smith & Lars Hoff, MSU Department of Education

D. Becoming an Entrepreneur

Learn what it means to run your own business! Fun and interactive activities will help you understand the basics of setting up a company, finding customers, selling a product, and learning how to spend money and earn money.

Lab Fee: \$0.

James Powers, Technical Sales Consultant/Banking & Finance-Choice Point, A LexisNexis Company, Bozeman

E. Build Your Own Website

Learn the web design process from start to finish while building your own website. We will emphasize proper planning, good and bad design, color, basic HTML, and making your site easy to find. We will also learn to use HTML and image editors.

Lab Fee: \$0.

Mark Wolfe, Software Engineer — LexisNexis, Bozeman

WORKSHOP TWO—10:20am

F. See the World this Summer!

Take a fun trip around the world, with stops in Africa, Asia, Australia, Europe, and South America. We'll explore different cultures through music, food, and various activities.

Meet MSU students from these regions to learn about where they live and what they enjoy. Join the adventure, amigo – Ciao!

Lab Fee: \$15.

Jayme Kreitinger, Study Abroad Advisor - MSU Office of International Programs, Bozeman

G. Teeth, Fangs & Gecko Feet, Oh My!

Whether designing high-strength cables, super-sticky paper or environmentally friendly plastic, scientists often look to Nature for ideas and solutions. Join us in this quest for biological materials that inspire laboratory innovations. Who knows, you may dream up a big medical break-through or alternative energy solution!

Lab Fee: \$0.

Trevor Douglas, Director of MSU Center for Bio-inspired Nanomaterials

H. Exploring the Brain

Use human brains (online and specimens) to understand how we organize information from our senses and about our actions. We'll view video clips of people with stroke and other brain diseases to understand how different parts of the brain work together normally.

Lab Fee: \$0.

Cassie Cusick, Professor – Cell Biology and Neuroscience Department, MSU, Bozeman

I. Listening to the Universe

Participants will learn about a new kind of astronomy that studies the most exciting objects in the universe – black holes, neutron stars, and supernovae! Instead of using light, astronomers will use gravity to turn on the sound to the movie of the universe.

Lab Fee: \$3.

Kathryn Williamson, Graduate Student, MSU Physics Department

J. Sound Design for Visual Media

Have you ever wondered who creates the rich digital soundtracks on TV and in the movies? MSU students learn music technology: the integration of music composition, sound design and audio engineering. At Peaks, you, too, can learn digital sound signal processing techniques and use your edited sounds to accompany a short film or animation.

Lab Fee: \$15.

Hsiao-Lan Wang, Adjunct Assistant Professor, MSU Music Technology Program

WORKSHOP THREE—1:15pm

K. Fun with Metal!

Ever wonder how jewelry is made? Do you love to make art? You'll get to use your hands and minds to learn some basic metalsmithing and design techniques. Make rings, pins, necklaces, and more throughout the week. Have fun and make something you'll be proud to wear!

Lab Fee: \$15.

*April Hale, Graduate Student – Art Department
Montana State University, Bozeman*

L. The Small World Around You

Work with tools microbiologists use to explore the world of microbiology in air, water, and food. Find out what you are breathing, drinking, and eating.

Lab Fee: \$0.

*Susan Broadaway, Lab Manager/Research Asst. –
Microbiology Department, MSU, Bozeman*

M. Mini Medical School: Science and Sports Collide

Be a doctor for a week! Explore the human body, discover how our systems work and apply your knowledge to the exciting field of sports medicine. Sports and science will combine for an eye-opening look inside your amazing body.

Lab Fee: \$15.

*Dr. Milica Liveray, Doctor of Physical Therapy –
Clearwater Therapeutics Physical Therapy, Bozeman*

N. MOSS Mountain Survival

If you enjoy spending time in the outdoors, this class will help you learn mountain survival skills and become a competent and confident person in the outdoors. Learn skills that will help you navigate safely in the wild using map and compass, build your own shelter, start a fire with a bow drill and identify edible plants.

Lab Fee: \$0.

*Erin Lynch – Montana Outdoor Science School,
Bozeman*

O. Be a Multimedia Journalist

Do you like to take photos, shoot video, write stories or watch multimedia on YouTube?

Become a roving Peaks reporter, covering camp action in video, audio, photos, and interviews. Make multimedia news packages to share with the whole group, and create an interactive exhibit that everyone can view on a giant plasma touch screen.

Lab Fee: \$10.

*Suzi Taylor, Communications Director – MSU
Extended University, Bozeman*

CHANGE OF PACE

Lillyserpentine Fusion Bellydance and Basic Rhythm

Fusion Bellydance is a dance art for everyone, all ages, all sizes, and all levels. The music, dance movements, and dance costumes will create your dance personality. Enter into a supportive environment with fellow dancers as we explore and discover new creativity.

*—Mary Powell, Owner/
Instructor/Performer –
Lillyserpentine Fusion
Bellydance, Belgrade*

Volleyball:

Skills, Drills and Play

You'll improve your volleyball skills and have fun! Floor days will include warm-up games, skills, practice and competition. Promising to be fun and active, this Change of Pace is for everyone!

Max: 18

*—Sarah Helfrich, health &
Physical Education Instructor
(Ret.), Bozeman*

Open Swim

You decide if you want to have a vigorous workout, a relaxing swim, or participate in fun games and activities! Certified lifeguard and Peaks counselors will be present.

Max: 44

—MSU PEC Pool

All program information and a downloadable registration form can be found at <http://eu.montana.edu/peaks>

REGISTRATION FORM

Peaks & Potentials • June 21-26, 2009



Name: _____
 Home Address: _____
 Mailing Address (if different): _____
 City/State/ZIP _____
 Email: _____
 Home Phone: _____
 Grade, Fall '09 (circle one): 5 6 7 Birth Date: _____ Age: _____
 School: _____ Female/Male (circle one)

Parent / Guardian Contact Information:

Name: _____
 Email: _____
 Daytime Phone: _____
 Mobile Phone: _____
 Other Emergency Contact Name & Phone: _____

T-shirt size (adult sizes) SM MED LARGE XL

Roommate preference _____

☛ If your child needs special accommodations, please let us know so we can adequately serve you.

Rank all workshops in each time in order of preference (1=want most; 5=least)

Workshop One	Workshop Two	Workshop Three
____ A. USI \$15 Lab Fee	____ F. World \$15 Lab Fee	____ K. Metal \$15 Lab Fee
____ B. Film \$5 Lab Fee	____ G. Teeth \$0 Lab Fee	____ L. Micro \$0 Lab Fee
____ C. Bird \$15 Lab Fee	____ H. Brain \$0 Lab Fee	____ M. Medical \$15 Lab Fee
____ D. Entrepreneur \$0 Fee	____ I. Universe \$3 Lab Fee	____ N. Surv. \$0 Lab Fee
____ E. Web \$0 Fee	____ J. Sound \$15 Lab Fee	____ O. Journ \$10 Lab Fee
Change of Pace		
____ Bellydancing	____ Volleyball	____ Open Swim

Tuition and Activity Fee\$ 272
 Commuter Fee (\$36) or Resident Fee (\$206)\$ _____
 Total Lab Fees (include lab fees for your first choices)\$ _____
 Total Due\$ _____
 Total Enclosed (\$50 Deposit Required)\$ _____
 Balance Due (Due June 1)\$ _____

Check/money order (payable to MSU) Charge my credit card (MC/Visa/Disc)

Card number: _____
 Expiration: _____ CVC (Security code) _____
 Name on Card: _____

School Verification - School signature required. This camp is appropriate for the above named student, and s/he will be entering grade 5, 6 or 7 in Fall 2009.

Signature of School Official _____
 Position _____ Phone _____

Return this form and deposit to:
 MSU Office of Continuing Education, 204 Culbertson Hall
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