Peaks & Potentials Camp
a fun, interactive and educational camp for high-potential kids entering grades 5, 6 and 7 in Fall 2014
June 15–20, 2014
Montana State University–Bozeman

photos by Ryan M. Hannahoe and Suzi Taylor
Peaks & Potentials Program Details

Now in its 31st summer, Peaks & Potentials gives high-ability, high-potential students the opportunity to come to the MSU campus and explore special topics of interest while working with experts in various subject areas. A signature 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 campus dorms or commuting from home each day. All classes emphasize personal instruction, 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 15–20, 2014. Check-in, orientation (mandatory for all participants and first-year parents), and an ice cream social are Sunday, June 15, and all workshops and activities begin Monday, June 16. Resident students will need to be dropped off between 5 p.m. and 7 p.m. on Sunday and picked up by 4 p.m. on Friday.

Tuition and Activity Fee: $389

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

Meal Plan:

- Resident Fee: $235
  The resident fee includes cost of housing for one person in a double-occupancy dorm room for five nights and dorm supervision. The fee also includes five breakfasts, five lunches and four dinners in the residence hall cafeteria.
- Commuter Meals: $39 (5 lunches) or $74 (5 lunches + 4 dinners)
  Students who are not staying in the residence halls choose one commuter meal plan: either five lunches, or five lunches and four dinners. Breakfasts and individual dinners can be purchased each day on-site (cash only): $6.75 per breakfast; $8.75 per dinner. If local students leave campus for dinner, they are strongly encouraged to return for evening activities. There will be no refunds for students who do not participate in these activities.

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 Langford Residence Hall* on the MSU campus and will eat all meals at the Harrison Dining Hall* on campus.

Deposit and Refund Policy

A non-refundable deposit of $50 per participant is required to reserve a spot. The balance is due May 30. Cancellations prior to that date will receive a refund minus the $50 deposit. No refunds will be given after May 30. A social security number is required to process a refund.

Return Registration Form and Deposit to:

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

*New location

For More Information

Contact the MSU Extended University, Office of Continuing Education at (406) 994-6683 or nicole.soll1@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
All students participate in one workshop during each time slot (three total). Workshops fill on a first-come/first-served basis.

<table>
<thead>
<tr>
<th>WORKSHOP 1 — 8:30am</th>
<th>WORKSHOP 2 — 10:15am</th>
<th>WORKSHOP 3 — 1:15pm</th>
</tr>
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<tbody>
<tr>
<td>A. The Magic of Science! Disappearing money, floating water, balloon skewers, soda geysers, and smoke bubbles are just some of the many hands-on science experiments that we will explore in this class. [Note: This is the same as workshop H] Ryan Hannahoe, Teacher, Monforton School</td>
<td>F. The Life of an Aquatic Scientist! What do a mayfly, underground water, and fish all have in common? They are all studied by scientists! Come see the cool things aquatic scientists do every day to find out if you might want to be a water scientist when you grow up. Stephanie McGinnis, Education/Outreach Coordinator, Montana Watercourse</td>
<td>K. Honey Bee Investigators (H.B.I.) Bee Pathogen Detection using Molecular Tools Honey bees are essential pollinators of many food crops. Recently bee populations have experienced increased losses. Scientists are still trying to answer the question “What’s killing the bees?” Learn about bee biology and the molecular tools scientists use to detect honey bee pathogens. Dr. Michelle Flemmiken, Research Assistant Professor, MSU Department of Plant Sciences &amp; Plant Pathology, Madison Martin, Research Assistant, MSU Department of Plant Sciences &amp; Plant Pathology</td>
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<td>B. Plate Tectonics and Sea Floor Spreading We will explore plate tectonics, focusing on the spatial and movement aspects of ocean plates, volcanic activity and earthquakes, and build a model demonstrating sea-floor spreading and subduction. Robin Woolridge, MS, MSU Earth Sciences</td>
<td>G. Exploring Alternative &amp; Renewable Energy Let’s go on a trip of discovery. We will explore the realm of alternative and renewable energy sources. Throughout the week students will learn about new and exciting technologies that harness energy to power our lives. Each day will cover a different topic with hands-on activities. Jerrod Bley, Renewable Energy Education Coordinator, MSU Extension Housing and Environmental Health</td>
<td>L. A World Music Sampler: Steel Pan, Taiko &amp; West African Drum &amp; Dance Get set to actually play on the instruments that you are often only able to watch in videos or listen to in recordings. We’ll examine three musical cultures: steel pan from Trinidad &amp; Tobago, Taiko from Japan, and West African Drum and Dance. You’ll learn about the country each instrument represents and the role music and dance represents there. Kristofer Olsen, Steel Pan Scholar, Freelance Educator</td>
</tr>
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<td>C. The Art, The Master Dive into the environment of select master artists: their makings, their styles, their impacts. We’ll encourage young artists to stretch, go beyond and step outside of themselves with assurance, giving their artwork expanded meaning and understanding. Chelsea Smith, Artist, ArtSplot</td>
<td>H. The Magic of Science! Disappearing money, floating water, balloon skewers, soda geysers, and smoke bubbles are just some of the many hands-on science experiments that we will explore in this class. [Note: This is the same as workshop A] Ryan Hannahoe, Teacher, Monforton School</td>
<td>M. Passport to the World You’re not just a citizen of your country; you’re a citizen of the world! Learn what it means to be a global citizen while exploring other cultures and countries, and completing a cultural study and a passport journal. Find out how other cultures fit into the larger world and study the positive effect they can have on the world. Stephanie Davison, Program Coordinator, MSU Extension 4-H</td>
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<tr>
<td>D. Scat, Tracks, and the Change of Seasons What can animal scat tell you about the change of seasons? Believe it or not, it can be an important tool for researchers who study seasonal cycles. Work with a researcher studying our local grasslands and learn actual techniques scientists use in the field to track animals. Students will participate in picture scavenger hunts, role playing games, and set up experiments to monitor grasslands in their own backyard beyond the camp. Erica Garrotte, Master’s Candidate, MSU Department of Ecology</td>
<td>I. What’s the Big Deal about WATER?! What would happen if your running water ceased? Can you carry 40 lbs of water for a mile? We will explore the global water crisis through research, stream analysis, and designing and building a water container prototype. This journey will take you from researcher to stream scientist to prototype designer. Stephanie McBride-Bergantine, Math Strategies, Bozeman Public Schools &amp; Cynthia McBride, Mathematics &amp; Social Studies Teacher, Bozeman Public Schools</td>
<td>N. Food on the Mind Have you ever wondered why dessert tastes better than salad? Do you know what happens to food once you gobble it up? Want to know what to eat when you’re feeling sad, tired or sick? Do you like food? Come learn about nutrition. Greg Doctor, Research Assistant, MSU Cell Biology &amp; Neuroscience; Kaitlyn Ohruch, Student, MSU Health &amp; Human Development</td>
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<td>E. Mysteries at the Museums: Behind the Scenes Take a peek at two museums’ collections, exhibitions, and some of the everyday and extraordinary things that happen behind the scenes. At Museum of the Rockies, visit areas that are off-limits to the public! You’ll dig for real dinosaur bones and meet live geckos. At the American Computer &amp; Robotics Museum, you’ll explore the history of the computers and electronic devices you use today. You will also get to see the Robots &amp; Science Fiction display and imagine where the future is taking us! Museum of the Rockies staff and American Computer Museum staff</td>
<td>J. Sustainable Jewelry from Recycled Materials Participants will explore recycled materials such as bottlecaps, license plates, and computer parts to make beautiful pieces with pendants. Make some wearable art that you can take home with you! Bryan Petersen, Assistant Professor, MSU School of Art</td>
<td>O. The Wonder of Science! If you like the Magic of Science workshop, you’ll love this class, too! Exciting science experiments to make include a fire extinguisher, rainbow rose, invisible soda, bubbling lava lamp and eating nails. Ryan Hannahoe, Teacher, Monforton School</td>
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June 15–20, 2014

Montana State University–Bozeman
REGISTRATION FORM • Peaks & Potentials • June 15–20, 2014

Return this form and deposit to:
MSU Office of Continuing Education, 200 Culbertson Hall • PO Box 172200, Bozeman, MT 59717–2200
Fax: 406-994-6546 • Phone: 406-994-6683

Name: ____________________________________________________________
Home Address: ____________________________________________________
Mailing Address (if different): ________________________________________
City/State/ZIP ______________________________________________________
Email: ____________________________________________________________
Home Phone: _______________________________________________________
Grade entering, Fall 2014 (circle one): 5   6   7 Birth Date: ______________ Age: ______________
School: ____________________________________________________________ Female / Male (circle one)

Parent / Guardian Contact Information:
Name: ____________________________________________________________
Email: ____________________________________________________________
Daytime Phone: ____________________________________________________
Parent’s Cell Phone: ________________________________________________
Other Emergency Contact Name & Phone: ________________________________

T-shirt size (adult sizes) ☐ SM ☐ MED ☐ LARGE ☐ XL
Roommate preference _________________________________________________

* If your child needs special accommodations, let us know so we can adequately serve you. Include a separate sheet of paper.

WORKSHOP CHOICES: Rank all five workshops in each time slot in order of your preference (1 = want most; 5 = least)

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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 2014.

Signature of School Official ____________________________________________
Position ___________________________ Phone ________________________________

Tuition and Activity Fee ................................................................. $ 389

Meal Plan (must choose one)
☐ Resident (All meals and lodging, $235) ☐ Commuter Fee (5 Lunches only, $39) ☐ Commuter Fee (5 Lunches and 4 dinners, $74)

Total Due ............................................................................................... $ __________
Total Enclosed ($50 Deposit Required) ................................................. $ __________
Balance Due (Due May 30) ..................................................................... $ __________

Payment: ☐ Check or money order (payable to MSU) ☐ Charge the following credit card (MC/Visa)
Card number: ______________________ Expiration: __________ CVV (Security code): __________
Name on card: _______________________________________________________
Billing address and phone ______________________________________________