

# Outdoor Science Education Program

## Valentine/SNARL Reserve

### 2017 Class Schedule

UC Santa Barbara offers a variety of children's summer science classes. The courses are designed to teach complex scientific principles through hands-on lessons using real scientific equipment. Students who enroll should have a strong interest in science, love being in the outdoors, and be willing to participate in all aspects of these academic classes. Students are expected to behave in an appropriate, respectful, and safe manner.

All classes are geared to next year's grade level.  
Classes can be at Valentine or SNARL and can be 3, 4, 5, or 6 hours per day.

<p><b>Capturing Science through Technology</b>  <b>Grades 6-8</b></p> <p>Students will use digital photography to capture the beauty of the landscape and the diversity of Valentine Reserve. Technology, art, and science will be combined in this project-based class. All students will need to bring a digital camera. Computer experience preferred.</p>	<p><b>LOCATION: VALENTINE (6 hours)</b>  <b>9:00-3:00 pm</b></p>	<p><b>June 19-23</b>  <b>Janis Richardson</b>  <b>\$184.00</b></p>
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<p><b>Science through Art</b>  <b>Grades 5-7</b></p> <p>This course will explore science through the eyes of an artist. Learn to paint and create delicate wildflowers, students will use a variety of media to enhance their observational skills. This course is for art enthusiasts.</p>	<p><b>LOCATION: VALENTINE (4 hours)</b>  <b>9:00-1:00 pm</b></p>	<p><b>June 26-30</b>  <b>Janis Richardson</b>  <b>\$120.00</b></p>
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<p><b>Involving Dissolving</b>  <b>Grades 3-4</b></p> <p>Come see what happens when you mix things together. We'll explore the science of dissolving during a week of scientific experiments. We'll use various powders, liquids, and solids to create crystallized masterpieces. Will everything we mix dissolve in our liquids even? We'll explore the science of dissolving during a week of scientific experiments. Various powders, liquids, or solids will be used.</p>	<p><b>LOCATION: VALENTINE (3 hours)</b>  <b>9:30-12:30 pm</b></p>	<p><b>June 26-30</b>  <b>Lisa Anderson</b>  <b>\$92.00</b></p>
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<p><b>The Art of Nature</b>  <b>Grades 4-5</b></p> <p>Explore the intersection of art and nature in this week-long class. The class is designed to make a strong connection with our natural environment while experimenting with a variety of media throughout the week. Enjoy art, hikes, play, and an appreciation for the environment woven together in a fun week of creative exploration.</p>	<p><b>LOCATION: SNARL (3 hours)</b>  <b>10:00-1:00 pm</b></p>	<p><b>June 26-30</b>  <b>Dana Ellis and Lori Michelin</b>  <b>\$92.00</b></p>
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<p><b>Hurray for Habitats</b>  <b>Grades 2-3</b></p> <p>Owls, mule deer, rabbits, and all mammals that live in the high desert and/or riparian areas of the Eastern Sierra. As we explore the science of our findings and observations on our Habitat Boards. If you like to explore, play games, and learn about science, come join this expedition.</p>	<p><b>LOCATION: SNARL (4 hours, no class July 4)</b>  <b>9:00-1:00 pm</b></p>	<p><b>July 3-7</b>  <b>Deb Leyh</b>  <b>\$92.00</b></p>
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<p><b>Amazing Animals</b>  <b>Grade 1</b></p> <p>Amazing Animals will introduce the student to four of the five invertebrates: mammals, birds, fish, and amphibians. We will examine invertebrates as well, comparing insects and spiders. Every day will include a hike, a game, and an art project. Students should bring a snack and lunch.</p>	<p><b>LOCATION: VALENTINE (4 hours, no class July 4)</b>  <b>9:00-1:00 pm</b></p>	<p><b>July 3-7</b>  <b>Debbie Boucher</b>  <b>\$92.00</b></p>
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**The Art of Nature**

**LOCATION: VALENTINE (3 hours)**

**July 10-14**

**Grades 4-5**

**10:00-1:00 pm**

**Dana Ellis and Lori Michelin**

Explore the intersection of art and nature in this week-long class. The class is designed to make a strong connection with our natural environment while experimenting with a variety of media throughout the week. Enjoy art, hikes, play, and an appreciation for the environment woven together in a fun week of creative exploration. **\$92.00**

**Beautiful Bats**

**LOCATION: VALENTINE (3 hours)**

**July 10-14**

**Grades 2-3**

**1:00-4:00 pm**

**Michelle Kubiak**

Bats are familiar to nearly everyone, yet most people have never seen one up close. Are bats dangerous? Do bats get tangled in your hair? Folktale and fantasy are all part of people's ideas about bats. In this class you will learn the truth about bats is more astonishing than any of the stories about them. **\$92.00**

**Sifting through Science**

**LOCATION: VALENTINE (3 hours)**

**July 17-21**

**Grade 1**

**9:00-12:30 pm**

**Lisa Anderson**

Young children are natural scientists. In this class, our little scientists will explore and investigate the environment at Valentine through experiments, stories, games, and walks. We will use rocks, sand, water, dirt, rocks, and sift our way through science! **\$92.00**

**Beautiful Bats**

**LOCATION: VALENTINE (3 hours)**

**July 17-21**

**Grades 2-3**

**1:00-4:00 pm**

**Michelle Kubiak**

Bats are familiar to nearly everyone, yet most people have never seen one up close. Are bats dangerous? Do bats get tangled in your hair? Folktale and fantasy are all part of people's ideas about bats. In this class you will learn the truth about bats is more astonishing than any of the stories about them. **\$92.00**

**Involving Dissolving**

**LOCATION: VALENTINE (3 hours)**

**July 17-21**

**Grades 3-4**

**9:00-12:00 pm**

**Carole Lester**

Come see what happens when you mix things together. We will play with evaporation and crystallized masterpieces. Will everything we mix dissolve? Will liquids evaporate? We will use real science at Valentine to read and create chemical reactions involving dissolving during this week of scientific exploration. Non-toxic materials will be used. **\$92.00**

**Bones, Beads, and Baskets**

**LOCATION: VALENTINE (5 hours)**

**July 24-28**

**Grades 3-4**

**9:00-2:00 pm**

**Rosanne Higley**

What would it be like to live off the land before? This class will be a small-scale and learn how early people in America hunted and gathered for food, medicine, celebration, and important games. Students will use and make artifacts modeling Native American ways of life. We will choose to (usually) form a basket for a project based on a native legend. **\$155.00**

**Wild Island Adventure**

**LOCATION: SNARL (3 hours)**

**July 24-28**

**Grades 4-5**

**9:00-12:00 pm**

**Carole Lester**

Get ready for a week on the island of SNARL. The water is drinking water. At circle the Earth, liquids are everywhere. We will explore the uses of water and the needs of the animals by studying the creatures that live there and discovering how liquids do what they do. Come prepared to get as much as you can from all of our most precious resources. **\$92.00**

## **To enroll:**

- Mail
  - 1) a completed application form and
  - 2) signed University Waiver of Liability form and
  - 3) a check made out to Regents of the University of California to:  
**Carole Lester, Education Coordinator**  
**Outdoor Science Education Program**  
**1016 Mt. Morrison Rd.**  
**Mammoth Lakes, CA 93546**
- Applications are accepted on a first-come, first-served basis. You may drop the application in the mail or bring it to the Headquarters building at SNARL.
- Only complete application packets can be processed. While we will not reserve class space by telephone, you are welcome to call to check on class availability.
- Enrollment is limited and courses fill very quickly.
- No refunds after May 15.

**For more information call Carole Lester (805)893-5655 or email [carole.lester@ucsb.edu](mailto:carole.lester@ucsb.edu)**

### **Outdoor Science Education Program Application**

**\*\*Please fill out a separate application, waiver, and check for each class for each child.\*\***

Class title \_\_\_\_\_ Class dates \_\_\_\_\_

Class Location: Valentine or SNARL

Second class choice (If first choice isn't available) \_\_\_\_\_

Name of student \_\_\_\_\_ Male Female

Name of parent(s) \_\_\_\_\_ Email \_\_\_\_\_

Mailing address/state/zip \_\_\_\_\_

Home/work/cell  
phone \_\_\_\_\_

Student's age (now) \_\_\_\_\_ Grade level next year \_\_\_\_\_

Please list emergency names and phone numbers not listed above. Let us know if someone other than a parent has permission to pick up your child.

\_\_\_\_\_

Please list any medical or behavioral information, learning disabilities or special needs of your child. This information will be kept confidential. Use the back if more space is needed.

#### **Behavior Agreement**

An enrichment class of this type requires motivated, well-behaved students in order to ensure a quality experience for all. If your child fits this description, please read and sign the following:

My child and I agree to comply with all of the rules of the class. We agree to respect the rights of others, follow directions of the University staff, participate in all activities and behave in a manner that ensures our safety and the safety of others. We understand that students who do not comply will be asked to leave the class and may not return. No refunds will be given in this scenario.

Student's signature \_\_\_\_\_ Parent's signature \_\_\_\_\_

UNIVERSITY OF CALIFORNIA, SANTA BARBARA  
SIERRA NEVADA AQUATIC RESEARCH LAB (SNARL)  
VALENTINE RESERVE

**Waiver of Liability, Assumption of Risk, and Indemnity Agreement**

**Waiver:** In consideration of being permitted to visit or participate in any way in any activity, including transportation, at the above locations, I, for myself, my heirs, personal representatives or assigns, **do hereby release, waive, discharge, and covenant not to sue** The Regents of the University of California, its officers, employees and agents, and the City of Los Angeles Department of Water and Power, its officers, commissioners, employees and agents (all of which are collectively referred to herein as the "Releasees") from liability **from any and all claims, including the negligence of the Releasees**, resulting in personal injury, accidents or illnesses (including death), and property loss arising from, but not limited to, visitation or participation in any way in any activity, including transportation, at the above locations.

**Assumption of Risks:** Visitation or participation carries with it certain inherent risks that cannot be eliminated regardless of the care taken to avoid injuries. The specific risks vary from one activity to another, but the risks range from 1) minor injuries such as scratches, bruises, and sprains to 2) major injuries such as eye injury or loss of sight, joint or back injuries, heart attacks, and concussions to 3) catastrophic injuries including paralysis and death.

**I have read the previous paragraphs and I know, understand, and appreciate these and other risks that are inherent** in visitation or participation. I hereby **assert that my visitation or participation is voluntary and that I knowingly assume all such risks.**

**Indemnification and Hold Harmless:** I also agree to INDEMNIFY AND HOLD the Releasees HARMLESS from any and all claims, actions, suits, procedures, costs, expenses, damages and liabilities, including attorney's fees, brought as a result of my involvement in visitation or participation and to reimburse them for any such expenses incurred.

**Severability:** The undersigned further expressly agrees that the foregoing waiver and assumption of risks agreement is intended to be as broad and inclusive as is permitted by the law of the State of California and that if any portion thereof is held invalid, it is agreed that the balance shall, notwithstanding, continue in full legal force and effect.

**Acknowledgment of Understanding:** I have read this waiver of liability, assumption of risk, and indemnity agreement, fully understand its terms, and **understand that I am giving up substantial rights, including my right to sue.** I acknowledge that I am signing the agreement freely and voluntarily, and **intend by my signature to be a complete and unconditional release of all liability** to the greatest extent allowed by law.

\_\_\_\_\_  
Signature of Minor's Parent/Guardian      Date

\_\_\_\_\_  
Signature of Participant      Date

Participant's Age (If Minor) \_\_\_\_\_

\_\_\_\_\_  
Participant's Name (Print)

Mailing Address: \_\_\_\_\_

Email: \_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_