

# Teacher Enhancement Program for K-12 Educators

AT THE COLORADO SCHOOL OF MINES



# FALL 2010

<http://te.csmspace.com>

# COLORADO SCHOOL OF MINES

## Teacher Enhancement Program

### Fall 2010

#### REGISTRATION

All of the courses announced in this brochure are coordinated through the Office of Special Programs and Continuing Education at the Colorado School of Mines. **Unless another organization or individual is specified as the registration contact in a course listing, enrollment forms and tuition checks/credit card information should be mailed or faxed to:**

Teacher Enhancement Program  
Colorado School of Mines  
1600 Jackson St., Suite 160A  
Golden, CO 80401  
(303) 277-8683 FAX  
(303) 279-3855

Visit our home page at:  
<http://te.csmspace.com>

**You must pre-register at least 48 hours prior to the start of a workshop (Saturday and Sunday excluded). Do not show up for a class without a confirmed registration from the Teacher Enhancement Office or person/organization taking the registrations. You are likely to be turned away by the instructor. CSM reserves the right to assign audit (non-credit) status with full tuition responsibility to walk-in participants.**

#### TUITION AND REFUND POLICIES

Registration through Teacher Enhancement must be accompanied by full tuition payment by check or credit card authorization. If a course registrant cancels or transfers an enrollment, the tuition amount **minus** a \$25 cancellation/transfer fee will be refunded or applied to another course. Unless otherwise indicated, you must cancel at least 48 hours in advance of a workshop to qualify for a refund (Saturday and Sunday excluded). **Once a class has begun, no full or partial tuition refunds will be granted.** Colorado School of Mines reserves the right to cancel a course (usually one week prior to delivery) if the minimum enrollment is not reached (with full tuition refund to registrants). Colorado School of Mines and the Teacher Enhancement Office will not be liable for any other expenses incurred by registrants.

When paying tuition by check, please make out a **separate** check to "CSM Continuing Education" for **each** course and for **each** participant.

#### ATTENDANCE POLICY

**Course participants are expected to attend each class session in its entirety.** This includes arriving on time and staying until dismissal. Credit will be granted for a course only when the full contact hour requirements have been met. Missed sessions of a course cannot be made up by attending subsequent offerings of the same class or by completing additional assignments. In consideration of the instructor and other course registrants, **DO NOT** bring children of any age to class under any circumstances.

#### TRANSCRIPT AND CREDIT INFORMATION

The Teacher Enhancement Office and Colorado School of Mines cannot be responsible for meeting individual deadlines for credits toward teacher licensure and/or salary increases. Official transcripts for current course work can be printed upon written request approximately two weeks after the instructor submits course grades to the Teacher Enhancement Office. Individual letters of completion are not available. Graduate-level semester credit offered for each course is applicable for license renewal in the State of Colorado and is generally accepted elsewhere. The credit is not applicable toward a degree at CSM. Request for Transcript of Record forms can be found at [www.mines.edu/Outreach/Cont\\_Ed/tep15.html](http://www.mines.edu/Outreach/Cont_Ed/tep15.html).

**All policies and requirements stated above are program-wide and not at the discretion of individual instructors. Enrollment in any course offered for CSM credit implies your agreement to comply with program policies and requirements.**

*All courses offered in cooperation with the Extended Studies Program of the Colorado Commission on Higher Education*

## Fall Course Offerings

### TIPI RAISING AND UTE HERITAGE WORKSHOP (GR. 3-5)

CT-0882-10F  
0.5 semester credit hour  
Date: September 11  
Time: 8:30am-5:30pm  
Location: Starsmore Discovery Center, Colorado Springs  
Instructors: Miriam Shane, Cathy Railton, Reene Keele  
Tuition Fee: \$35 (**payable during workshop**)  
Registration Fee: \$65

Increase your awareness of the Ute Indian culture in the Pikes Peak region beginning with the fossil record 14,000 years ago to the present day. Activities include raising a Ute style tipi, handling artifacts, painting with yucca fronds, participating in a resource walk, and investigating the history of the Ute people. Ute elder, Austin Box, will share his view of culture through storytelling and art.

**To register or for more information, contact:**

Miriam Shane, Starsmore Discovery Center  
719/385-6086 or starsmore@springsgov.com

### YOUR HOME IS YOUR HABITAT (PREK-12)

CT-0296-10F  
0.5 semester credit hour  
Date: October 2  
Time: 9:00am-5:00pm  
Location: Downtown Aquarium, Denver  
Course Coordinator: Colleen Shipley/Alyce Todd,  
303/561-4565/303/561-4638  
Tuition Fee: \$35 (**payable during workshop**)  
Registration Fee: \$75

From mountains to reefs, beaver ponds and mangroves, how much do you and your students really know about these ecosystems near and far? Take an in-depth look at a variety of aquatic and terrestrial habitats while participating in cross-curricular activities that you can take back to your classroom. Take home a curriculum guide that includes background information on each habitat as well as standards-connected activities to use in your classroom and during future visits to the Downtown Aquarium.

**To register or for more information, contact:**

Downtown Aquarium Sales & Service Center  
303/561-4444

### ASPEN GOLD AND GHOST TOWNS (K-12)

CT-0292-10F  
1 semester credit hour  
Dates: October 2-3  
Time: 8:00am-5:00pm  
Location: Garden of the Gods Visitor Center, Colorado Springs  
Instructor: Melanie Phelps  
Tuition Fee: \$135

Hear the eerie squeaking of the old doorjambs beneath the rustle of golden aspen leaves. Pan for gold and feel the call of the gold fever as you learn Colorado mining history in the richest gold field in the world. Explore the engineering marvel of the Alpine Tunnel and discover an 1880's cemetery.

**To register or for more information, contact:**

Melanie Phelps, 719/440-7180  
[melaniephe@aol.com](mailto:melaniephe@aol.com)

### UNDERSTANDING EVOLUTION: A TEACHING WORKSHOP (GR. 7-12)

CT-1059-10F  
0.5 semester credit hour  
Date: October 9  
Time: 8:00am-5:00pm  
Location: Univ. of Colorado, Boulder  
Instructor: Loren Sackett  
Tuition Fee: \$35 (**payable during workshop**)

This workshop is designed to enhance evolution education in Colorado schools by providing you with up-to-date information and sample classroom activities based on real research. Choose from three modules during each of the four sessions, in addition to opening and closing lectures. The diversity of the modules reflects the breadth of contemporary research in evolution.

**To register or for more information, contact:**

Sierra Love Stowell, Univ. of Colorado  
303/748-1337 or [lovestowell@gmail.com](mailto:lovestowell@gmail.com)

### CLICK YOUR CLASS: POSITIVE REINFORCEMENT IN THE CLASSROOM (K-12)

CT-0916-10F  
0.5 semester credit hour  
Date: October 16  
Time: 9:00am-5:00pm  
Location: Dumb Friends League, Denver  
Instructor: Nicole Schimming  
Tuition Fee: \$68

Can kids be trained? Absolutely! Clicker train one of our mascot dogs and then learn how to apply similar techniques in your own classroom. Tour behind the scenes at our shelter and learn about the training we do with shelter animals. Snacks provided.

To register, mail the enrollment form and full tuition amount to the CSM Teacher Enhancement Office.

### DIGITAL PHOTOGRAPHY ONLINE (K-12)

CT-0562-10F  
1.5 semester credit hours  
Dates: October 31 – December 4  
Instructor: John LaFerlita  
Registration Fee: \$200

Learn how to take better photographs and edit the images using the online version of Adobe Photoshop Elements. Topics will include light, composition, nature (landscape and close-ups). This class is for beginners using a PC or a Mac with a DVD player. You will need a basic understanding of computers and the Internet. Instruction is by videos created specifically for the class which can be accessed online.

**To register or for more information, contact:**

John LaFerlita, 303/678-0312 or  
[laferlit@hotmail.com](mailto:laferlit@hotmail.com)

## **ADOBE PHOTOSHOP ELEMENTS ONLINE (K-12)**

CT-0737-10F

1.5 semester credit hours

Dates: October 31 – December 4

Instructor: John LaFerlita

Registration Fee: \$200

Learn to edit photographs and create slide shows that you can use in the classroom using the free online version of Adobe Photoshop Elements. This class is for beginners using a PC or a Mac with a DVD player. You will need a basic understanding of computers and the Internet. Instruction is by online videos that have been created specifically for this class.

### **To register or for more information, contact:**

John LaFerlita, 303/678-0312 or

laferlit@hotmail.com

## **DIGITAL PHOTOGRAPHY AND POWERPOINT ONLINE (K-12)**

CT-05120-10F

1.5 semester credit hours

Dates: October 31 – December 4

Instructor: John LaFerlita

Registration Fee: \$200

Learn how to take better photographs and transfer them into PowerPoint. Emphasis will be on creating a more visually oriented presentation. You will need a basic understanding of computers and the Internet. This class is for beginners using a PC or a Mac with a DVD player. Instruction is by online videos that have been created specifically for the class.

### **To register or for more information, contact:**

John LaFerlita, 303/678-0312 or

laferlit@hotmail.com

## **USING CLASSROOM COMMUNICATION SYSTEMS (K-12)**

CT-0266-10F

1 semester credit hour

Dates & Times:

November 6 (8:00am-4:00pm)

December 4 (12:30-4:30pm)

Plus 4-6 hours of additional, independent work.

Location: CSM campus, Golden

Instructor: Susan Kowalski

Tuition Fee: \$50 (**payable during workshop**)

Registration Fee: \$80

*Pre-requisites:* A working familiarity with computers and current employment as a classroom teacher in Colorado.

Imagine each of your students with a hand-held wireless device (a clicker) to transmit information to you. Not only will they be more engaged and attentive during class, but you can see their responses instantly for feedback about comprehension. Learn how to use this technology effectively, then check out the equipment to use in your own classroom (appropriate for all disciplines). Course completion qualifies you for future check-out privileges.

### **To register or for more information, contact:**

Susan Kowalski

303/273-3121 or skowalsk@mines.edu

## **OPTIMIZING THE USE OF CLASSROOM COMMUNICATION SYSTEMS (K-12)**

CT-0783-10F

0.5 semester credit hour

Dates: November 13 & December 4

Time: 8:00am-12:00pm

Location: CSM campus, Golden

Instructor: Susan Kowalski

Tuition Fee: \$35 (**tuition payable during workshop**)

Registration Fee: \$45

*Pre-requisite:* A working familiarity with a classroom communication system and current employment as a classroom teacher.

Already competent in the mechanics of using clickers, but want to explore techniques that will optimize their use in your classroom? Designed for those who feel comfortable setting up a classroom communication system and using it in teaching, but now want to focus on how to use this technology to get the most bang for their buck. Since the underlying pedagogical foundation is the same for all brands, it doesn't matter what particular system you are using. Some proven techniques will be demonstrated in class, and there will be time for sharing ideas with your colleagues.

### **To register or for more information, contact:**

Susan Kowalski

303/273-3121 or skowalsk@mines.edu

## Denver Museum of Nature & Science Course Offerings

**Note: Register for DMNS courses through the Museum. See box below.**

### **AMAZON VOYAGE: VICIOUS FISHES AND OTHER RICHES (K-12)**

CT-1070-10F

0.5 semester credit hour

Date: September 25

Time: 8:00am-4:30pm

Location: Denver Museum of Nature & Science

Instructor: Kate Geer, 303/370-6441

Tuition Fee: \$90

Join us for a journey down the Amazon River. Explore the rich biodiversity and unique cultures of the Amazon region as you spend time in this temporary exhibition, *Amazon Valley: Vicious Fishes and Other Riches*. Enjoy exclusive time in the exhibit, hear content lectures, try out lessons from the Educators Guide, and learn how to get the most out of your class field trip. Presented in conjunction with the Colorado Council on Economic Education.

### **MAKING SCIENCE RELEVANT (HYBRID ONLINE COURSE) (GR. 6-8)**

CT-1072-11S

3 semester credit hours

Dates: October 2-February 5

October 2 (8:00am-4:30pm), DMNS

November 13 (8:00am-4:30pm), Zoo

February 5 (8:30am-1:30pm), DMNS

Instructors: Kate Geer, Meg John, Sarah Brenkert

Course Coordinator: Kate Geer, 303/370-6441

Tuition Fee: \$115

The Museum and Denver Zoo are collaborating to bring you a workshop that will build your science knowledge base and help you develop your students' 21<sup>st</sup> century skills. Focus on how to effectively use the Museum and Zoo as learning resources and enhance your understanding of key concepts in life and earth science. Gain new mastery of cutting-edge teaching technologies, and learn how to make science relevant to your students' lives. This hybrid course includes three face-to-face meetings plus an online component from Oct 2, 2010 through Feb 4, 2011. For more information and an online schedule, visit [dmns.org/teachers](http://dmns.org/teachers).

### **EXPLORING SMALL WORLDS IN THE SOLAR SYSTEM (K-12)**

CT-1071-10F

0.5 semester credit hour

Date: October 16

Time: 8:00am-4:30pm

Location: Denver Museum of Nature & Science

Instructor: Whitney Cobb

Course Coordinator: Kate Geer, 303/370-6441

Tuition Fee: \$45

Stardust-NExT. Dawn. EPOXI. Catch the excitement in these names? All are NASA Missions of Discovery due to arrive at their exotic destinations – comets and asteroids – in the next 18 months. The Museum has collaborated with McREL and the Space Sciences Institute to bring you this exciting day of science. Hear stories from mission scientists and engineers, engage in hands-on activities, see cutting-edge space displays, and explore *Space Odyssey*, the Museum's interactive space exhibition.

### **GENETICS OF TASTE II: A FLAVOR FOR HEALTH (GR. 6-12)**

CT-1079-11S

1.5 semester credit hour

Dates: February 11-12 & April 8

Time: 8:00am-4:30pm

Location: Denver Museum of Nature & Science

Instructor: Kate Geer, 303/370-6441

Registration Fee: \$70 (Funded by a Science Education Partnership Award from National Institutes of Health)

Join us for year three of this workshop as you examine current genetic research on taste and how it relates to human health. In the community health lab in *Expedition Health*, you will participate in real research while learning about nutrition and the health triad (how genetics, choices and environment affect body systems). Collaborate on ways to apply this scientific research to what you are teaching in your classroom. You must be able to attend all three days. Receive a \$425 stipend upon course completion. This is a repeat of the course offered in the summer 2010.

**To register for any DMNS course, contact:  
DMNS Reservations, 303/370-6000**

## Denver Zoo Course Offerings

**Note: Register for Zoo courses through the Zoo. See box below.**

### **POOP TO POWER: SUSTAINABILITY AND INNOVATION AT DENVER ZOO (GR. 4-12)**

CT-1074-10F

0.5 semester credit hour

Date: October 9

Time: 8:00am-4:00pm

Location: Denver Zoo

Instructors: Rachel Anderson, Sarah Metzger

Tuition Fee: \$90 (includes breakfast, snacks, and curriculum resource CD)

Explore the science of sustainable energy in this unique, lab-based workshop. Design, construct, and test mini-gasification reactors; and see firsthand how trash becomes energetic treasure in our newest exhibit, *Asian Tropics*. Explore innovative applications of science, technology, and engineering in our unique setting; and learn how the Zoo is leading the way in the new energy frontier and securing a better world for animals. Participating teachers also qualify for exclusive discounts on Denver Zoo science and sustainability workshops for students.

### **INQUIRY IN ACTION: ANIMAL RESEARCH AT DENVER ZOO (PREK-12)**

CT-1075-10F

0.5 semester credit hour

Date: November 6

Time: 8:00am-4:00pm

Location: Denver Zoo

Instructors: Sarah Brenkert, Rachel Anderson

Tuition Fee: \$90 (includes breakfast, snacks, and curriculum resource CD)

Let the Denver Zoo foster inquiry in your classroom by showing you how to use the Zoo to spark authentic science investigations. Engage in firsthand animal research and data collection while gaining the skills you need to boost student achievement. Support 21<sup>st</sup> Century Skills as you help your students design investigable questions, focus observations, document data through scientific journaling, and craft evidence-based explanations – all while connecting kids to the wonder of the natural world. Participating teachers qualify for exclusive discounts on Denver Zoo inquiry and animal research workshops for students.

### **OUR COLORADO STORY: NATURE AND CULTURE AT THE CROSSROADS (GR. 4-8)**

CT-1022-11S

1.0 semester credit hour

Dates: May 7-8

Time: 8:00am-4:00pm

Locations: Denver Zoo & Denver Museum of Nature & Science

Instructors: Sarah Brenkert, Kate Geer

Tuition Fee: \$150 (includes breakfast, snacks, and curriculum resource CD)

Take a fresh look at Colorado's unique landscape, and explore how Coloradans have connected to the land throughout the history of our state. Discover the diverse plants and animals that call Colorado home, and use critical thinking and creativity to design an educational exhibit showcasing the relationships between humans and the natural world. Learn more about how the Museum and the Zoo can enhance your science and social studies curricula; and leave with innovative ways to engage students in exploring Colorado's geography, history, and human connections to the land.

**Register online for any Denver Zoo course at:**  
[www.denverzoo.org/education/teacherWorkshops.asp](http://www.denverzoo.org/education/teacherWorkshops.asp)  
**For questions, contact the Denver Zoo Education Department at 303/376-4808.**



## Cheyenne Mountain Zoo Course Offerings

**Note: Register for CM Zoo courses through the Zoo. See box below.**

### GOING "BAT"TY (K-12)

CT-1067-10F  
0.5 semester credit hour  
Date: October 16  
Time: 1:00-9:00pm  
Location: Cheyenne Mtn. Zoo, Colorado Springs  
Instructor: Joy Schkade  
Tuition Fee: \$35 (**payable during workshop**)  
Registration Fee: \$65.25

Did you know that bats can consume 250 tons of insects per night or that 150 big brown bats can save farmers 1 billion dollars a year? These facts and more are waiting for you at this workshop.

### WHERE THE WILD THINGS ARE (K-12)

CT-1068-10F  
0.5 semester credit hour  
Date: November 13  
Time: 9:00am-5:00pm  
Location: Cheyenne Mtn. Zoo, Colorado Springs  
Instructor: Joy Schkade  
Tuition Fee: \$35 (**payable during workshop**)  
Registration Fee: \$65.25

Come spend the day learning about Colorado's wildlife and what you and your students can do to help protect our native animals and our natural resources.

### GETTING KIDS INVOLVED WITH CONSERVATION (K-12)

CT-0901-10F  
0.5 semester credit hour  
Date: December 4  
Time: 9:00am-5:00pm  
Location: Cheyenne Mtn. Zoo, Colorado Springs  
Instructor: Joy Schkade  
Tuition Fee: \$35 (**payable during workshop**)  
Registration Fee: \$65.25

Waste reduction opportunities exist anywhere we have waste. Discover ideas, activities, and information to help you teach children and young adults how waste affects their lives and their environment and what they can do to help.

### WILDLIFE FOR SALE (K-12)

CT-0491-11S  
0.5 semester credit hour  
Date: January 22  
Time: 9:00am-5:00pm  
Location: Cheyenne Mtn. Zoo, Colorado Springs  
Instructor: Joy Schkade  
Tuition Fee: \$35 (**payable during workshop**)  
Registration Fee: \$65.25

The illegal harvest and trade of wildlife species and plants threatens the survival of a whole spectrum of species, from tigers and turtles to orchids and cacti. Learn what you and your students can do to help stop the wildlife trade in your own hometown and across the globe.

### AFRICAN RIFT VALLEY (K-12)

CT-1100-11S  
0.5 semester credit hour  
Date: February 12  
Time: 9:00am-5:00pm  
Location: Cheyenne Mtn. Zoo, Colorado Springs  
Instructor: Joy Schkade  
Tuition Fee: \$35 (**payable during workshop**)  
Registration Fee: \$65.25

Learn about, experience, and connect with the animals of the Zoo's African Rift Valley. Explore reticulated giraffes, ground hornbills, meerkats, vultures, and more that call the African Rift Valley home.

**To register or for more information, contact:**  
**Erin Hobson, 719/633-9925 (x127)**  
**edprograms@cmzoo.org or**  
**register online at:**  
**[www.cmzoo.org/exploreLearn/adults/calsses.asp](http://www.cmzoo.org/exploreLearn/adults/calsses.asp)**

## Butterfly Pavilion Course Offerings

**Note: Register for Butterfly Pavilion courses through the Pavilion. See box below.**

### **DRAGONFLIES TALE (K-6)**

CT-0713-10F

0.5 semester credit hour

Date: October 9

Time: 8:00am-5:00pm

Location: Butterfly Pavilion, Westminster

Instructors: Nicole Bickford, Deborah Brooks

Tuition Fee: \$35 (**payable during workshop**)

Registration Fee: \$45

Explore five different Native American cultures through their stories and their art. Create a dragonfly like the Zuni boy who saved his village; discover how Grandmother Spider inspired the Muskogee Indians to catch bad dreams; and create your own dream catcher. Integrate science, literacy, social studies, and visual art in this fun, standards-based workshop.

### **DREAM WEAVER (PREK-8)**

CT-1084-10F

0.5 semester credit hour

Date: October 30

Time: 8:00am-5:00pm

Location: Butterfly Pavilion, Westminster

Instructors: Nicole Bickford, Debbie Brooks

Tuition Fee: \$35 (**payable during workshop**)

Registration Fee: \$45

Discover the crafty side of Anansi the Spider and the ingenuity of Grandmother Spider. Learn something new about these eight-legged creatures by exploring the creepy and awesome world of arachnids. Enjoy a fun mix of inquiry and creativity while learning through science, art, and literary-based lessons.

### **ART AND SCIENCE SERIES (GR. 5-12)**

CT-0921-10F

0.5 semester credit hour

Location: Butterfly Pavilion, Westminster

Instructors: Kris Pohl, Deborah Brooks

Course Coordinator: Amanda Morrison, 720/974-1869

Tuition Fee: \$35 (**payable during workshop when two workshops completed**)

### **BATIK & INSECTS**

Date: November 7

Time: 1:00pm-5:00pm

Registration Fee: \$40

Discover the roles of insects used in an ancient form of fabric decoration: batik. Find out how bees make wax, how silk moths are used to create silk, and how scale insects can be turned into a spectacular scarlet dye. Create a one-of-a-kind batik scarf with these insect products.

### **DREAMCATCHERS AND ARACHNIDS**

Date: November 7

Time: 8:00am-12:00pm

Registration Fee: \$40

Explore the importance of arachnids in nature as well as in Native American culture. Discover the myth behind the dreamcatcher in Native American tales as you weave your own dreamcatcher.

**To register or for more information, contact:**  
**Amanda Morrison, 720/974-1869**  
**[amorrison@butterflies.org](mailto:amorrison@butterflies.org)**



## EcoAdventure Course Offerings

**Note: Register for EcoAdventure courses through EcoAdventures. See box on next page.**

### **BACK IN BLACK - RAVENS, CROWS, AND MAGPIES (K-12)**

CT-0463-10F

1 semester credit hour

Dates & Times:

September 11 (12:00-7:00pm)

September 12 (8:00am-4:00pm)

Location: EcoAdventures, Morrison

Instructor: Pam Batton

Tuition Fee: \$125 (**\$135 after August 26<sup>th</sup>**)

Ravens, crows, magpies, and jays form the Corvid family. They are intelligent, social, curious, and one of the most adaptable bird species on earth. Their success is noted in cultural folklore and history. Discover the natural and cultural history of these remarkable birds through hands-on activities and outdoor treks.

### **THIRTEEN THOUSAND YEARS OF COLORADO HISTORY (K-12)**

CT-1069-10F

1 semester credit hour

Dates & Times:

September 18 (9:00am-5:00pm)

September 19 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$130 (**\$140 after Sept. 3<sup>rd</sup>**)

Take a tour through Colorado culture. Discuss Native Americans, Spanish settlers, pioneers, railroaders, miners, the Tenth Mountain Division, baby boomers, ski bums, and more. Make, use, and take home a plethora of EcoAdventure “make and take” classroom projects.

### **ELK BUGLING (K-12)**

CT-95105-10F

1 semester credit hour

Dates: September 25-26

Time: 12:00pm-7:30pm

Location: EcoAdventures, Morrison

Instructor: Pam Batton

Tuition Fee: \$130 (**\$140 after Sept. 9<sup>th</sup>**)

Observe and listen to the bull elk bugling during the mating season. Explore adaptations, behavior, and human/elk interactions through activities and observation. By the end of class, you’ll be thinking like an elk and understand the important ecological role of this large herbivore.

### **FEASTS OF FALL (K-12)**

CT-0756-10F

1 semester credit hour

Dates & Times:

October 2 (10:00am-6:00pm)

October 3 (9:00am-4:00pm)

Location: EcoAdventures, Morrison

Instructor: Pam Batton

Tuition Fee: \$135 (**\$145 after Sept. 16<sup>th</sup>**)

Taste a “true” Thanksgiving feast when you cook over an open fire using historic foods and methods of the Plymouth Colonists and the Wampanoag Natives. Bust the myths of the first Thanksgiving; visit a living history museum; and explore the natural history of the wild turkey, Canada goose, corn, beans, pumpkin, squash and gourds.

### **JUST BUTTING HEADS? BIGHORN SHEEP & MOUNTAIN GOATS (K-12)**

CT-0757-10F

1 semester credit hour

Dates & Times:

November 6 (9:00am-5:00pm)

November 7 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$125 (**\$135 after October 21<sup>st</sup>**)

Discover why head butting is common among bighorn sheep and rare (but serious) among mountain goats. Learn about unique adaptations for survival in a rugged habitat. Hike into bighorn country as the mating season begins to observe their behavior. Learn why the mountain goat truly is a beast the color of winter.

### **PUTTING THE COLOR BACK INTO COLORADO – A HISTORY OF MINORITIES IN THE ROCKIES (K-12)**

CT-0122-10F

1 semester credit hour

Dates & Times:

November 13 (9:00am-5:00pm)

November 14 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$130 (**\$140 after October 28<sup>th</sup>**)

Examine the other histories that made Colorado: female doctors, African businessmen, Mexican buffalo hunters, Shoshone trappers, geriatric labor leaders, and Comanche traders. Make butter, throw a lariat, and try your hand at tin-smithing.

### **WILD ABOUT WILDLIFE CRAFTS & LITERATURE (K-6)**

CT-9860-10F

1 semester credit hour

Dates & Times:

December 4 (9:00am-5:00pm)

December 5 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$125 (**\$135 after Nov. 18<sup>th</sup>**)

Discover some of Colorado’s wildlife through crafts, activities, children’s literature, and short field trips. Create a craft for each of these species and learn their natural history: cottontail rabbit, Canada goose, red-tailed hawk, porcupine, deer mouse, grasshopper, and spider. Bring a favorite wildlife craft to share.

## **THE YUP'IK: ONE OF ALASKA'S FIRST INHABITANTS (K-12)**

CT-0700-11S

1 semester credit hour

Dates & Times:

January 22 (9:00am-5:00pm)

January 23 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$135 (**\$145 after January 7<sup>th</sup>**)

In a land too cold for polar fleece, imagine life as a hunter/gatherer. You depend on nature for warmth, food, and shelter. Learn about Yup'ik's lifeways, traditions, and culture to see if you could live on the arctic tundra. Try to harvest food with bolas, spears, and atlatl; build a miniature kayak; make a storyknife; and try on traditional clothing.

## **SOME CALL'EM BUFFALO - WE CALL'EM BISON (K-12)**

CT-9616-11S

1 semester credit hour

Dates & Times:

February 12 (9:00am-5:00pm)

February 13 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$125 (**\$135 after January 28<sup>th</sup>**)

Buffalo or bison? Discover the history behind the name and the animal, as well as its natural history. Take a field trip to a bison ranch and get a closer look at a part of our American heritage. Taste its healthful qualities as we sample our subject at a buffalo restaurant. Explore the connection of Native people to the bison then and now.

## **THE MOUNTAIN MAN: FINDING A HISTORICAL FIGURE BENEATH THE LEGEND (K-12)**

CT-9960-11S

1 semester credit hour

Dates & Times:

February 26 (9:00am-5:00pm)

February 27 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$130 (**\$140 after Feb. 11<sup>th</sup>**)

Learn how to separate the historical fur trader from the fictitious mountain man. Trace a remarkable history from 1805 to 1850 with an emphasis on economics, geography, cultural change, and experimental archaeology. Learn how to make moccasin patterns, sample historical foods, and make a fire with flint and steel.

## **WILD FELINES OF COLORADO (K-12)**

CT-9712-11S

1 semester credit hour

Dates & Times:

March 5 (8:00am-5:00pm)

March 6 (9:00am-3:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$140 (**\$150 after February 18<sup>th</sup>**)

Discover the mysterious mountain lion, evasive bobcat, and reintroduced lynx. Explore each animal's natural history through hands-on activities and an opportunity to observe a live mountain lion, bobcat, and others on a field trip to a feline refuge. Play simulation games to understand habitat, territoriality, predator/prey relationships, and population dynamics.

## **BIRDS OF PREY (K-12)**

CT-9614-11S

1 semester credit hour

Dates & Times:

April 9 (12:00pm-7:30pm)

April 10 (8:30am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$130 (**\$140 after March 26<sup>th</sup>**)

Learn about Colorado's common birds of prey through activities that will help you to identify and understand their behaviors. Focus on nocturnal and diurnal raptors. Field trips will include owl and hawk watching during the spring migration.

## **BEYOND THE SPIRIT OF 1776: LIFE IN COLONIAL AMERICA (K-12)**

CT-1101-11S

1 semester credit hour

Dates & Times:

April 16 (9:00am-5:00pm)

April 17 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$130 (**\$140 after April 1<sup>st</sup>**)

Discover how we built a nation, from before the arrival of the Pilgrims at Plymouth to the fledgling colony's victory over the British Empire. Try your hand at pickling, weaving, blacksmithing, and more.

**To register for any EcoAdventures course, mail the CSM enrollment form along with a check payable to EcoAdventures to:**

**Pam Batton**

**EcoAdventures**

**5894 South Meadow Drive**

**Morrison, CO 80465**

**303/697-0327**

**Fax 303/697-0329**

**[Pamsecoadventures.com](http://Pamsecoadventures.com)**

### **Registration/Cancellation/Refund Policy**

If payments have not been received by the registration deadline (2 ½ weeks before the class), EcoAdventures reserves the right to charge a late registration fee of \$10.00 or delete you from the class and allow a person from the waiting list to take your spot.

If you notify us of a cancellation before the registration deadline, we will refund your tuition less a \$25.00 cancellation fee. If you cancel after the registration deadline, we will refund your tuition less a cancellation fee of \$35.00. If you cancel 48 hours before a class begins, we will refund half of your tuition. If you cancel 24 hours before a class begins or on the day of class or are a no-show to class, no refund will be offered. These fees also apply to class transfers.

## Project WILD - Project Learning Tree - Project WET

Projects WILD, Learning Tree and WET are supplemental, interdisciplinary environmental education programs emphasizing wildlife, forest and water resources, and our interdependence with the natural world. Using hands-on activities that create awareness, appreciation, understanding, skills and commitment, you and your students learn to address environmental issues within the framework of your existing curriculum. You will receive activity guides, posters, prizes, and other supplemental materials.

All Project WILD, Learning Tree and WET PreK-12 activities have been correlated to the Colorado Model Content Standards for Science, Math, Geography, History, Reading and Writing. Spanish translations of activities are available for Project Learning Tree and Project WILD. New PLT materials are available for integrated middle and high school curricula.

Following is a list of upcoming workshops. **Pre-register by calling the person listed and sending in the non-refundable registration fee at least 7 days prior to the first day of the workshop (unless otherwise noted). Tuition will be due on the first day of the workshop. Please register through the person listed, not through the Colorado School of Mines.** Workshops may be cancelled one week before the start date if minimum enrollment numbers have not been met.

### GLOBAL CONNECTIONS: FORESTS OF THE WORLD & FIRE ECOLOGY (GR. 6-12)

CT-0935-10F

1 semester credit hour

Dates & Times:

4:00pm, October 22 through 3:00pm, October 24

Location: Estes Park

Tuition Fee: \$50 (**payable during workshop**)

Registration Fee: \$50 (must provide own lodging)

**Registration Contact:** Shawna Crocker, 303/202-4662  
or [scrocker@colostate.edu](mailto:scrocker@colostate.edu)

### BASIC PROJECT LEARNING TREE: TREE BY TREE-THE MILE HIGH MILLION (K-12)

CT-0822-10F

0.5 semester credit hour

Date: November 13

Time: 8:30am-4:30pm

Location: Denver East H.S.

Tuition Fee: \$35 (**payable during each workshop**)

Registration Fee: \$25 (returned after completion of workshop)

**Registration Contact:** Shawna Crocker, 303/202-4662,  
[scrocker@colostate.edu](mailto:scrocker@colostate.edu)

### PROJECT WILD II WORKSHOPS

Project WILD II workshops are advanced WILD classes. You will explore wildlife/nature related topics in greater depth, and broaden your skills and knowledge to better use Project WILD in the classroom or any other educational settings.

### BATS (WILD II WORKSHOP) (K-12)

CT-00101-10F

0.5 semester credit hour

Date: October 30

Time: 8:30am-5:30pm

Location: Hyatt-Tech Center, Denver

Tuition Fee: \$35 (**payable during workshop**)

Registration Fee: \$25

**Pre-requisite:** Basic Project WILD/Learning Tree/WET workshop

Join the foremost bat experts in the world, in town for the North American Society for Bat Research annual gathering. Learn about these amazing creatures, get hands-on activities to use with your students, and meet live bats from the Organization for Bat Conservation.

**To register or for more information, contact:**

Tabbi Kinion, CDOW

303/291-7165 or [tabbi.kinion@state.co.us](mailto:tabbi.kinion@state.co.us)

**For additional information contact:**

**Project WILD, 303/291-7262**

**Project Learning Tree, 303/202-4662**

**Project WET, 303/291-7601**

**See the following websites for full course descriptions or added workshops:**

[www.wildlife.state.co.us/education/teacherresources](http://www.wildlife.state.co.us/education/teacherresources)  
or [www.pltworkshops.blogspot.com/](http://www.pltworkshops.blogspot.com/)

## Spring 2011 Course Preview

### TEACHING COMPASSION AND RESPECT: HUMANE EDUCATION IN THE CLASSROOM (K-12)

CT-9157-11S  
1 semester credit hour  
Dates: January 22 & 29  
Time: 9:00am-5:00pm  
Location: Dumb Friends League, Denver  
Instructor: Nicole Schimming  
Tuition Fee: \$120 (includes snacks)

Learn easy ways to integrate lessons on compassion, kindness, and respect into your current curriculum. Take grade-appropriate curriculum guides and information back to your classroom; tour behind the scenes of our animal shelter; and learn about our services for pets and people of Colorado.

To register, mail the enrollment form and full tuition amount to the CSM Teacher Enhancement Office.

### CLASSROOM PETS: SMALL MAMMALS IN THE CLASSROOM (K-12)

CT-0915-11S  
0.5 semester credit hour  
Date: February 26  
Time: 9:00am-5:00pm  
Location: Dumb Friends League, Denver  
Instructor: Nicole Schimming  
Tuition Fee: \$68

Does having a pet in your classroom foster learning? Does having a classroom pet teach responsibility? Explore these questions and more. Learn about different species of small mammals, including rabbits, ferrets, guinea pigs, and mice. Meet with some of these small creatures, and decide if a classroom pet is right for you and your classroom.

To register, mail the enrollment form and full tuition amount to the CSM Teacher Enhancement Office.

## Summer 2011 Course Preview

### ECOLOGICAL CATTLE RANCHING (K-12)

CT-0300-11D  
3 semester credit hours  
Dates: June 4-11  
Location: Dove Creek  
Tuition Fee: \$130 (**payable during workshop**)  
Registration Fee: \$1,200 (includes all meals, bunkhouse, horses, tours; **\$250 deposit required**)

Learn how an ecological cattle rancher works to maintain the balance between man and nature. Be an active participant in herding cattle from one area to another to prevent overgrazing. Study desert flora/fauna and wild horse management while riding through the beautiful canyonlands of southwest Colorado.

#### To register or for more information, contact:

Catherine Entihar  
970/883-2548 or [cjscolors@frontier.net](mailto:cjscolors@frontier.net)

### HIGH COUNTRY EQUESTRIAN ADVENTURE I (K-12)

CT-9667-11M  
3 semester credit hours  
Dates:  
**Session I:** June 26-July 1  
**Session II:** July 10-15  
**Session III:** July 24-29  
Location: San Juan Mtns.  
Tuition Fee: \$130 (**payable during workshop**)  
Registration Fee: \$900 (includes all meals, group camping equipment, horse expenses, and wranglers; **\$250 deposit required**)

Take a horse pack trip through the beautiful wilderness area of the San Juan Mountains to observe flora and fauna in various altitude zones, incredible geological features, and the ecological impact of human activity in the mountains. Provide your own transportation to and from the trailhead north of Durango. You should be in good physical condition.

#### To register or for more information, contact:

Catherine J. Entihar  
970/883-2548 or [cjscolors@frontier.net](mailto:cjscolors@frontier.net)

## Course Enrollment Form

### Please Print

Full Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Social Security Number\*: \_\_\_\_\_ Date of Birth: \_\_\_\_\_  
Telephone: (school) \_\_\_\_\_ (home) \_\_\_\_\_  
School: \_\_\_\_\_ Grade Level: \_\_\_\_\_  
Email: \_\_\_\_\_

**When CSM is the registration contact, I prefer to receive a confirmation letter by:**

**o E-mail:** \_\_\_\_\_

**o Fax; fax number: ( )** \_\_\_\_\_

### oMail

**\*required if taking course for credit**

Are you Hispanic/Latino? Yes/No

Select one or more:

\_\_\_\_\_ American Indian or Alaska Native

\_\_\_\_\_ Native Hawaiian or Other Pacific Islander

\_\_\_\_\_ Asian

\_\_\_\_\_ White

\_\_\_\_\_ Black or African American

### Indicate the class(es) for which you are registering

Course #	Course Title	Course Dates	Tuition
CT-_____	_____	_____	_____
CT-_____	_____	_____	_____
CT-_____	_____	_____	_____
CT-_____	_____	_____	_____
CT-_____	_____	_____	_____

**Total:** \_\_\_\_\_

*Please follow carefully the specific registration instructions which accompany each course listing in this catalog. Many, but not all, listings will direct you to fill out the form above and mail along with the tuition amount to the Colorado School of Mines Teacher Enhancement Program. Please send a separate check for each course, and for each participant.*

**Make checks payable to CSM Office of Continuing Education unless otherwise noted.**

### Mail check(s) and application form (unless otherwise noted in course listing) to:

CSM Teacher Enhancement Program  
1600 Jackson St., Suite 160A  
Golden, CO 80401  
FAX: (303) 277-8683  
Phone: (303) 279-3855  
<http://te.csmspace.com>

### To pay by credit card:

☐ VISA ☐ MC ☐ AMEX ☐ DC

Card # \_\_\_\_\_

Exp. Date: \_\_\_\_\_

Cardholder Name: \_\_\_\_\_

Signature: \_\_\_\_\_