

Colorado School of Mines

TEACHER ENHANCEMENT PROGRAM

Office of Special Programs and Continuing Education

EXPLORE

learn

DISCOVER

experience

perform

TEACH

FALL 2009

COLORADO SCHOOL OF MINES

Teacher Enhancement Program

Fall 2009

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
Office of Special Programs & Continuing Education
Colorado School of Mines
P.O. Box 4028
Golden, CO 80401-0028
(303) 273-3314 FAX
(303) 273-3303 or (800) 446-9488, Ext. 3303

Visit our home page at:
te.csm.space.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.

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

INTRODUCTION TO CLIMATE CHANGE ONLINE (GR. 6-12)

CT-0762-09F
2 semester credit hours
Dates: September 18- November 1
Instructor: Sandra Henderson
Tuition Fee: \$90 (**payable during workshop**)
Registration Fee: \$225

This online course is designed to guide you through the basics of climate science, integrating content, classroom activities, and community-building discussions to help you understand the answers to common questions about climate variability and change. Offered by the National Center for Atmospheric Research, <http://ecourses.ncar.ucar.edu>.

To register or for more information, contact:
Sandra Henderson, UCAR
303/497-8108, sandrah@ucar.edu

EARTH SYSTEM SCIENCE: A CLIMATE CHANGE PERSPECTIVE ONLINE (GR. 6-12)

CT-0773-09F
2 semester credit hours
Dates: September 18- November 8
Instructor: Sandra Henderson
Tuition Fee: \$90 (**payable during workshop**)
Registration Fee: \$225

This online course is designed to guide you through the basics of understanding Earth as a system, integrating content, classroom activities, and community-building discussions to help you understand the answers to common questions about Earth system functions as related to climate change. Offered by the National Center for Atmospheric Research, <http://ecourses.ncar.ucar.edu>.

To register or for more information, contact:
Sandra Henderson, UCAR
303/497-8108, sandrah@ucar.edu

UNDERSTANDING CLIMATE CHANGE TODAY ONLINE (GR. 6-12)

CT-0860-09F
2 semester credit hours
Dates: September 18- November 8
Instructor: Sandra Henderson
Tuition Fee: \$90 (**payable during workshop**)
Registration Fee: \$225

This online course is designed to guide you through the basics of understanding the impacts of climate change, integrating content, classroom activities, and community-building discussions to help you understand the answers to common questions about what the implications of climate change are today. Offered by the National Center for Atmospheric Research, <http://ecourses.ncar.ucar.edu>.

To register or for more information, contact:
Sandra Henderson, UCAR
303/497-8108, sandrah@ucar.edu

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

CT-0882-09F
0.5 semester credit hour
Date: September 19
Time: 8:30am-5:30pm
Location: Starsmore Discovery Center, Colorado Springs
Instructor: Cathy Railton
Tuition Fee: \$35 (**payable during workshop**)
Registration Fee: \$55

Increase your awareness of the Ute Indian culture in the Pikes Peak region through thematic and hands-on curriculum. Activities will include a presentation by Ute elder, Austin Box, raising an authentic Ute tipi, handling artifacts, sharing a historical perspective of Ute people from prehistoric times to modern day, painting with yucca fronds, discovering uses for local plants, beading on elk hide, and so much more.

To register or for more information, contact:
Miriam Shane, Starsmore Discovery Center
719/385-6086 or starsmore@springsgov.com

CAUTION: ENTERING THE INSECT WORLD (K-8)

CT-0711-09F
0.5 semester credit hour
Date: October 3
Time: 8:00am-5:00pm
Location: Butterfly Pavilion, Westminster
Instructor: Denise Price
Tuition Fee: \$35 (**payable during workshop**)
Registration Fee: \$40

Insects have amazing adaptations to help them survive. Explore the world of insects as you visit the exhibits, and learn how insect coloration, flight, symbiosis, behaviors, and much more help insects stay alive. Take home Colorado State Content Standard-based resources and activities for use in your classroom.

To register or for more information, contact:
Kris Pohl, Butterfly Pavilion
720/974-1868 or kpohl@butterflies.org
www.butterflies.org

ASPEN GOLD AND GHOST TOWNS (K-12)

CT-0292-09F
1 semester credit hour
Dates: October 3-4
Time: 8:00am-6:00pm
Location: Garden of the Gods Visitor Center, Colorado Springs
Instructors: Melanie Phelps, Joyce Webb
Tuition Fee: \$130

Experience Colorado history by exploring mining ghost towns. Hear the eerie squeaking of the old doorjambs beneath the rustle of golden aspen leaves. Study geology of the Colorado mineral belt, pan for gold, and hike to the famous Alpine Tunnel.

To register or for more information, contact:
Melanie Phelps, 719/440-7180
melaniephe@aol.com
www.coloradorivertrip.com

DRAGONFLIES TALE (K-6)

CT-0713-09F
0.5 semester credit hour
Date: October 10
Time: 8:00am-5:00pm
Location: Butterfly Pavilion, Westminster
Instructors: Nicole Bickford, Deborah Brooks
Tuition Fee: \$35 (**payable during workshop**)
Registration Fee: \$40

Explore five different Native American cultures via 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.

To register or for more information, contact:

Kris Pohl, Butterfly Pavilion
720/974-1868 or kpohl@butterflies.org
www.butterflies.org

DINOSAURS: A CONCISE NATURAL HISTORY (GR. 6-12)

CT-0961-09F
0.5 semester credit hour
Date: October 10
Time: 9:00am-5:45pm
Location: Rocky Mountain Dinosaur Resource Center, Woodland Park
Instructors: Steven Veatch, Gregory Kats
Tuition Fee: \$35 (**payable during workshop**)
Registration Fee: \$69 (includes lunch)

Examine the life and times of dinosaurs, their kinds, ecology, evolution, life habitats, and ultimate extinction. Explore how a paleontologist works in the field and laboratory. Arouse the imagination of your students to inspire them into deeper and meaningful investigations. Tour the RMDRC and receive a resource CD.

To register or for more information, contact:

Deb, Rocky Mountain Dinosaur Resource Center
719/686-1820 x104

PARIS TO NORMANDY: WORLD WAR I AND II SITES (K-12)

CT-0964-09F
4 semester credit hours
Dates: October 16-26
Location: Belgium & France
Instructor: Joyce Webb
Tuition Fee: \$2,450 plus airfare

Explore trenches and bunkers used during the German occupation of Belgium's North Coast. Tour the battlefields in Southern Belgium's Flanders Field then travel to Normandy for an in-depth view of WWII's beaches, cemeteries and other war sites. Continue your journey to Paris for a visit to one of the world's best WWI and II museums. Learn how the German occupation affected Belgium, Paris, and the rest of France.

To register or for more information, contact:

Melanie Phelps, 719/440-7180
melaniephe@aol.com
www.coloradorivertrip.com

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

CT-9157-09F
1 semester credit hour
Dates: October 17 & 24
Time: 8:30am-4:30pm
Location: Dumb Friends League, Denver
Instructor: Nicole Schimming
Tuition Fee: \$120

Learn easy ways to integrate lessons of kindness, compassion and respect into your current curriculum. Take grade-appropriate curriculum guides and information back to your classroom. Tour behind the scenes of our newly expanded 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.

DIGITAL PHOTOGRAPHY ONLINE (K-12)

CT-0562-09F
1.5 semester credit hours
Dates: November 2 – December 6
Instructor: John LaFerlita
Registration Fee: \$200

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

To register or for more information, contact:

John LaFerlita, 303/678-0312 or
laferlit@hotmail.com

ADOBE PHOTOSHOP ELEMENTS ONLINE (K-12)

CT-0737-09F
1.5 semester credit hours
Dates: November 2 – December 6
Instructor: John LaFerlita
Registration Fee: \$200

Learn to edit photographs and create slide shows that you can use in the classroom using the 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, the Internet, and email attachments. Instruction is by 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-05120-09F
1.5 semester credit hours
Dates: November 2 – December 6
Instructor: John LaFerlita
Registration Fee: \$200

Learn how to take better photographs and transfer them into PowerPoint. You will need a basic understanding of computers, the Internet, and email attachments. This class is for beginners using a PC or a Mac with a DVD player. Instruction is by 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

THREADS OF TIME: NAVAJO WEAVING (K-12)

CT-0962-09F

0.5 semester credit hour

Dates & Times:

November 4 (5:30pm-7:30pm)

November 7 (9:00am-3:30pm)

Location: Univ. of Colorado Museum, Boulder

Instructor: Jill Graham

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

Registration Fee: \$90

Explore the exhibit *Navajo Weaving: Diamonds, Dreams, Landscape* at the University of Colorado Museum of Natural History. Listen to inspiring stories about Navajo history and people through the experiences of H. Jackson Clark II. Create interdisciplinary curriculum using the techniques, materials, and design elements of Navajo textiles.

To register or for more information, contact:

Jill Graham, 303/921-7106
jill.graham17@gmail.com

USING CLASSROOM COMMUNICATION SYSTEMS (K-12)

CT-0266-09F

1 semester credit hour

Dates & Times:

November 7 (8:00am-4:00pm)

December 5 (8:00am-12:00pm)

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

2009 NATIONAL ASSOCIATION OF BIOLOGY TEACHERS PROFESSIONAL DEVELOPMENT CONFERENCE (GR. 7-12)

CT-0963-09F

1 semester credit hour

Dates: November 11-14

Time: 8:00am-5:00pm

Location: Sheraton, Denver

Course Coordinator: Mike Sipes, 303/237-4975

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

Registration Fee: varies, see website

Whether you're interested in ecology, evolution, or stem cell research the 2009 NABT Professional Development Conference offers something for every biology educator at every level. Attend the only conference designed to address the unique topics, concepts, and methods required to teach biology and life science in the 21st century.

To register or for more information, contact:

Lisa Walker
National Association of Biology Teachers
800/406-0775
Register online at: www.nabt2009.org

YOUR HOME IS YOUR HABITAT (GR. PREK-12)

CT-0296-09F

0.5 semester credit hour

Date: December 5

Time: 9:00am-5:00pm

Location: Downtown Aquarium, Denver

Course Coordinator: Colleen Shipley, Alyce Todd

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

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

CT-0915-09F

0.5 semester credit hour

Date: December 5

Time: 8:30am-4:30pm

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. 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.

Additional Programs of Interest

DENVER MUSEUM OF NATURE & SCIENCE PALEONTOLOGY CERTIFICATION PROGRAM

These courses may be taken for your own enrichment or to become qualified to work on the Museum's fossil research. Eight courses are required for certification and you can complete these courses at your own pace. For information, contact the Adult Programs Office at 303/370-6303 or PaleoCert@dmns.org. A complete list of course descriptions and program details is available at www.dmns.org/paleoprogram.

SOUTH PLATTE EDUCATION SERIES

CT-9421; Build-Your-Own Natural History of Colorado

A natural history series designed to your interests and teaching needs. Choose from a menu of courses which provide hands-on exploration of the wildlife and ecosystems along the S. Platte river. Combine classes on evenings and/or weekends to earn one semester credit hour. Visit our website at www.sspr.org/nature for class descriptions.

Contact Skot Latona, South Suburban Park and Recreation District, at 303/730-1022 x14 or email skotl@sspr.org for details or to obtain the special tuition flat rate.

Denver Museum of Nature & Science Course Offerings

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

EVOLUTION AND THE SCIENCE BEHIND IT (GR. 5-12)

CT-0966-09F

1 semester credit hour

Dates & Times:

October 2 (8:00am-5:00pm)

October 3 (8:00am-3:00pm)

Location: Denver Museum of Nature & Science

Instructor: Kate Geer, 303/370-6441

Tuition Fee: \$45

Come celebrate the Year of Darwin! Hear from experts including the Museum's own Evolutionary Biologists and storyteller and author, Brian "Fox" Ellis. Learn new techniques for teaching the science of evolution and spend time in the Prehistoric Journey exhibit hall and the Denver Zoo. See the science first hand through various collections and discuss views and practices of other Colorado teachers. Receive a \$200 stipend after successful course completion. This workshop is sponsored in part by Agilent Technologies Foundation.

CLIMATE CHANGE IN DEPTH (GR. 4-8)

CT-0967-09F

0.5 semester credit hour

Dates:

October 5 (Online portion starts and must be completed prior to the class meeting.)

November 7 (class)

Time: 8:30am-3:00pm

Location: Denver Museum of Nature & Science

Instructor: Meg John, 303/370-8208

Tuition Fee: \$45

Learn some of the essential principles and fundamental concepts that climate literate citizens and students should know. Hear from the experts and learn how the climate

system works; how life depend on, as well as affect climate; and how scientists understand the climate through observation and modeling. Utilize Climate Change education tools and activities and take home lesson plans. Receive a \$75 stipend after successful course and online completion. This workshop is sponsored in part by Agilent Technologies Foundation.

GENGHIS KHAN IN THE 21ST CENTURY CLASSROOM (GR. 6-12)

CT-0968-09F

0.5 semester credit hour

Date: October 24

Time: 8:00am-4:00pm

Location: Denver Museum of Nature & Science

Instructors: Kate Geer, 303/370-6441 & Dennis Grogan

Tuition Fee: \$90

What made Genghis Khan a visionary leader? What innovations from his empire are still in use today? Learn from experts and spend time in the exhibit hall without the crowds. Explore Genghis Khan's interdisciplinary approach to problem solving; examine the economics of the silk trade; gain a greater understanding of the ecological similarities between the Colorado prairies and the Mongolian steppes; and discover new insights of the world's greatest conqueror and the political economy of his Empire.

**To register for any DMNS course, contact:
DMNS Reservations, 303/322-7009 or
1-800-925-2250**

Denver Zoo Course Offerings

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

DESTINATION AFRICA: SAFARI IN A DAY (PREK-12)

CT-0972-09F
0.5 semester credit hour
Date: September 19
Time: 8:00am-4:00pm
Location: Denver Zoo
Instructors: Sarah Brenkert, Sarah Secor
Tuition Fee: \$90

Explore the wonders of Africa and meet the animals that call it home. From the savanna to the desert to the misty mountaintops, discover the diversity of African animals, ecosystems, and human cultures. Live animal encounters, guided tours of the Zoo, and standards-aligned curriculum applications make this a wildlife learning adventure you'll never forget.

TELL ME A TAIL: STORIES BRING THE NATURAL WORLD TO LIFE (PREK-12)

CT-0973-09F
0.5 semester credit hour
Date: November 14
Time: 8:00am-4:00pm
Location: Denver Zoo
Instructors: Sarah Brenkert, Sarah Secor
Tuition Fee: \$90

Join the Zoo and nationally-renowned storyteller Brian Fox for this special professional development opportunity. Learn storytelling techniques and literature connections to enrich your curriculum and inspire student motivation and investment in the sciences. This course comes complete with live animal demonstrations, guided tours, and standards-aligned curriculum applications.

CONSCIOUSNESS AND COGNITION: EXPLORING ANIMAL INTELLIGENCE (K-12)

CT-1003-10S
0.5 semester credit hour
Date: January 23
Time: 8:00am-4:00pm
Location: Denver Zoo
Instructors: Sarah Brenkert, Sarah Secor
Tuition Fee: \$90

Go inside the animal mind to explore the fascinating question of animal intelligence. Can animals actually apply insight to problem solving? Do they reflect on the past and worry about the future? This workshop will use Zoo tours, live animal demonstrations, and the latest in scientific research to explore the intriguing subjects of animal intelligence, emotions, and self-awareness.

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

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-0463-09F

1 semester credit hour

Dates & Times:

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

September 13 (8:00am-4:00pm)

Location: EcoAdventures, Morrison

Tuition Fee: \$125 (**\$135 after August 28th**)

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.

FABULOUS FALL (K-12)

CT-9983-09F

1 semester credit hour

Dates & Times:

September 19 (9:00am-5:00pm)

September 20 (8:00am-3:00pm)

Location: EcoAdventures, Morrison

Tuition Fee: \$125 (**\$135 after Sept. 4th**)

Spend two days hiking during Colorado's fabulous fall. Discover not only the beauty of an aspen grove, but also its remarkable ecological role. Learn how and why leaves change color, and watch as several wildlife species hastily prepare for winter. Through observations, we'll reveal their methods and reasons.

ELK BUGLING (K-12)

CT-95105-09F

1 semester credit hour

Dates: September 26-27

Time: 12:00pm-7:30pm

Location: EcoAdventures, Morrison

Tuition Fee: \$130 (**\$140 after Sept. 11th**)

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-0756-09F

1 semester credit hour

Dates & Times:

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

October 11 (9:00am-4:00pm)

Location: EcoAdventures, Morrison

Tuition Fee: \$135 (**\$145 after Sept. 25th**)

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.

NATIVE AMERICAN GAMES AND TOYS (K-8)

CT-0104-09F

1 semester credit hour

Dates & Times:

October 24 (9:00am-5:00pm)

October 25 (9:00am-4:00pm)

Location: CSM Campus, Golden

Tuition Fee: \$145 (**\$155 after October 9th**)

Explore the games and toys of various Native American people in this hands-on history class. Discover that many of the toys and games also had other benefits, such as modeling of adult roles and physical conditioning. Make several toys and games to take back to your classroom. Great for indoor recess activities!

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

CT-0757-09F

1 semester credit hour

Dates & Times:

November 7 (9:00am-5:00pm)

November 8 (9:00am-4:00pm)

Location: CSM campus, Golden

Tuition Fee: \$125 (**\$135 after October 23rd**)

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-0122-09F

1 semester credit hour

Dates & Times:

November 14 (9:00am-5:00pm)

November 15 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$130 (**\$140 after October 30th**)

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-9860-09F

1 semester credit hour

Dates & Times:

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

December 6 (9:00am-4:00pm)

Location: CSM campus, Golden

Tuition Fee: \$125 (**\$135 after Nov. 20th**)

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.

WILD CANINES OF COLORADO (K-12)

CT-9617-10S

1 semester credit hour

Dates & Times:

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

January 17 (8:00am-3:00pm)

Location: CSM campus, Golden

Tuition Fee: \$125 (**\$135 after December 30th**)

Discover the mischievous coyote, the cat-like canine, red fox, the extirpated wolf, and others. Learn each animal's natural history through hands-on activities and field observation during hikes. Supplement any animal study/ecology curriculum with class topics such as habitat, predator/prey relationships, and populations.

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

CT-0700-10S

1 semester credit hour

Dates & Times:

January 30 (9:00am-5:00pm)

January 31 (9:00am-4:00pm)

Location: CSM campus, Golden

Tuition Fee: \$135 (**\$145 after January 15th**)

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.

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

CT-9960-10S

1 semester credit hour

Dates & Times:

February 20 (9:00am-5:00pm)

February 21 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$130 (**\$140 after Feb. 5th**)

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.

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

CT-9616-10S

1 semester credit hour

Dates & Times:

February 27 (9:00am-5:00pm)

February 28 (9:00am-4:00pm)

Location: CSM campus, Golden

Tuition Fee: \$125 (**\$135 after February 12th**)

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.

WILD FELINES OF COLORADO (K-12)

CT-9712-10S

1 semester credit hour

Dates & Times:

March 13 (8:00am-5:00pm)

March 14 (9:00am-3:00pm)

Location: CSM campus, Golden

Tuition Fee: \$140 (**\$150 after February 26th**)

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-9614-10S

1 semester credit hour

Dates & Times:

April 10 (12:00pm-7:30pm)

April 11 (8:30am-4:00pm)

Location: CSM campus, Golden

Tuition Fee: \$130 (**\$140 after March 26th**)

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.

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

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.

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. Other dates may have been added; call for updated workshop listings. Visit our web sites at www.plt.org/events/index.cfm and <http://wildlife.state.co.us/Education/TeacherWorkshops/Index.asp> for more information.

BASIC PROJECT WILD: A GLOBEOLGY ADVENTURE (K-12)

CT-9598-09F

0.5 semester credit hour

Date: October 3

Time: 8:30am-4:30pm

Location: The Wildlife Experience, Parker

Instructors: Laura Arndt, Dan Zimmerer

Tuition Fee: \$30 (**payable during workshop**)

Registration Fee: \$29

Immerse yourself in a variety of ecosystems around the globe in the new Wildlife Experience exhibit *Globeology*, while obtaining access to the standards-based Project WILD curriculum. Experience a variety of inquiry learning activities utilizing the lifelike depictions of eight interactive world biomes.

To register or for more information, contact:

Kam Breitenbach, The Wildlife Experience
720/488-3344 or kbreitenbach@twexp.org

EARLY CHILDHOOD PROJECT WILD – GROWING UP WILD! (PREK-2)

CT-0974-09F

0.5 semester credit hour

Date: October 10

Time: 8:30am-5:00pm

Location: Majestic View Nature Center, Arvada

Instructor: Tabbi Kinion

Tuition Fee: \$30 (**payable during workshop**)

Registration Fee: \$20

Explore the brand new early childhood curriculum from Project WILD. This exciting new guide is full of activity ideas and resources perfect for early learners. Connect kids to the outdoors while solidifying early math and literacy skills.

To register or for more information, contact:

Tabbi Kinion, CDOW
303/291-7165 or tabbi.kinion@state.co.us

GLOBAL CONNECTIONS: FORESTS OF THE WORLD

(GR. 6-12)

CT-0975-09F

0.5 semester credit hour

Date: October 17

Time: 8:30am-4:30pm

Locations: Denver, TBA

Instructor: Shawna Crocker

Tuition Fee: \$30 (**payable during workshop**)

Registration Fee: \$40

Explore the connections between economic growth and environmental sustainability. Discussion and activities about effects of global forests on the people who live in them, forest based economics, climate change, and other environmental issues. Class will be jointly taught by Colorado Project Learning Tree and the Colorado Council for Economic Education. Receive the book *Collapse* by Jared Diamond and the PLT HS module.

To register or for more information, contact:

Shawna Crocker
303/202-4662 or 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-8)

CT-00101-09F

0.5 semester credit hour

Date: September 26

Time: 8:30am-5:00pm

Location: Colorado Division of Wildlife, Denver

Instructor: Tabbi Kinion

Tuition Fee: \$30 (**payable during workshop**)

Registration Fee: \$25

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

Explore the world of Colorado bats. Meet the experts, take home the best bat education materials available, and meet live bats during a special presentation by the Organization for Bat Conservation.

To register or for more information, contact:

Tabbi Kinion, CDOW
303/291-7165, tabbi.kinion@state.co.us

For updated information contact:

Project WILD, 303/291-7262
Project Learning Tree, 303/202-4662
Project WET, 303/291-7601

See the following website for full course descriptions or added workshops:
www.wildlife.state.co.us/education/workshops

Spring 2010 Course Preview

INTRODUCTION TO CLIMATE CHANGE ONLINE (GR. 6-12)

CT-0762-10S
2 semester credit hours
Dates: January 15- February 28
Instructor: Sandra Henderson
Tuition Fee: \$90 (**payable during workshop**)
Registration Fee: \$225

This facilitated online course is designed to guide you through the basics of climate science, integrating content, classroom activities, and community-building discussions to help you understand the answers to common questions about climate variability and change. Offered by the National Center for Atmospheric Research, <http://ecourses.ncar.ucar.edu>.

To register or for more information, contact:

Sandra Henderson, 303/497-8108
sandrah@ucar.edu

EARTH SYSTEM SCIENCE: A CLIMATE CHANGE PERSPECTIVE ONLINE (GR. 6-12)

CT-0773-10S
2 semester credit hours
Dates: January 15- March 7
Instructor: Sandra Henderson
Tuition Fee: \$90 (**payable during workshop**)
Registration Fee: \$225

This facilitated online course is designed to guide you through the basics of understanding Earth as a system, integrating content, classroom activities, and community-building discussions to help you understand the answers to common questions about Earth system functions as related to climate change. Offered by the National Center for Atmospheric Research, <http://ecourses.ncar.ucar.edu>.

To register or for more information, contact:

Sandra Henderson, 303/497-8108
sandrah@ucar.edu

UNDERSTANDING CLIMATE CHANGE TODAY ONLINE (GR. 6-12)

CT-0860-10S
2 semester credit hours
Dates: January 15- March 7
Instructor: Sandra Henderson
Tuition Fee: \$90 (**payable during workshop**)
Registration Fee: \$225

This facilitated online course is designed to guide you through the basics of understanding the impacts of climate change, integrating content, classroom activities, and community-building discussions to help you understand the answers to common questions about what the implications of climate change are today. Offered by the National Center for Atmospheric Research, <http://ecourses.ncar.ucar.edu>.

To register or for more information, contact:

Sandra Henderson, 303/497-8108
sandrah@ucar.edu

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

CT-0916-10S
0.5 semester credit hour
Date: January 23
Time: 8:30am-4:30pm
Location: Dumb Friends League, Denver
Instructor: Nicole Schimming
Tuition Fee: \$68

Clicker train a DFL mascot dog 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.

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

GHOST TOWNS BY CROSS-COUNTRY SKI (K-12)

CT-0301-10S
1 semester credit hour
Dates: February 13-14
Time: 8:00am-5:00pm
Location: Chamber of Commerce, Leadville
Instructors: Melanie Phelps, Joyce Webb
Tuition Fee: \$130

Cross-country ski back in time to the days of the Colorado gold and silver rush. Relive the extravagance and demise of Baby Doe and Horace Tabor, and tour the mining museum and the Matchless Mine. Listen to the snow blowing softly among the ruins of Oro City and California Gulch. Cross-country skiing or snowshoeing experience not required.

To register or for more information, contact:

Melanie Phelps, 719/440-7180
melaniephe@aol.com
www.coloradorivertrip.com

IRELAND: HAUNTED BY HISTORY AND RICH IN LEGENDS (K-12)

CT-0419-10S
4 semester credit hours
Dates: March 20-28
Location: Ireland
Instructor: Joyce Webb
Tuition Fee: \$1850 plus airfare

Experience the unpretentious simplicity of Ireland. Tour the southern Emerald Isle from castles to peat bogs, and explore the famous Aran Islands, the Burrens, and the Gaelic-speaking Dingle Peninsula. Kiss the Blarney Stone, climb the Rock of Cashel, and relive the grief of an Irish famine ship.

To register or for more information, contact:

Melanie Phelps, 719/440-7180
melaniephe@aol.com
www.coloradorivertrip.com

HAWAII: VOLCANOES & CORAL REEFS (K-12)

CT-0906-10S

4 semester credit hours

Dates: March 20-28

Location: Big Island of Hawaii

Instructor: Melanie Phelps

Tuition Fee: \$2100 plus airfare

Explore Hawaii's Big Island. Tiptoe across Kilauea's active volcano caldera; step gently through aa and pahoehoe lava flows; and gaze upon molten lava flowing to the sea. Submerge into the shimmering brilliance of coral reef life to conduct biodiversity and environmental impact research.

To register or for more information, contact:

Melanie Phelps, 719/440-7180

melaniephe@aol.comwww.coloradorivertrip.com**HIDDEN CLIFF DWELLINGS OF THE ANCIENT ONES (K-12)**

CT-0819-10S

1 semester credit hour

Dates: April 24-25

Time: 8:00am-5:00pm

Location: Bluff, UT

Instructors: Melanie Phelps, Joyce Webb

Tuition Fee: \$180

Discover decorated pottery shards, fishing twine, a child's woven doll, corn cobs, Kokopelli petroglyphs, and fingerprints preserved in 1,000-year-old adobe. Explore untouched cliff ruins of the Ancient Ones. Who were they? Where did they go? What stories do their ruins tell? The cliff dwellings are on a reservation and accessible only with a Navajo guide. Enjoy an adventure exploring both Navajo and Anasazi cultures.

To register or for more information, contact:

Melanie Phelps, 719/440-7180

melaniephe@aol.comwww.coloradorivertrip.com**PICKETWIRE DINOSAUR TRACKS BY MOUNTAIN BIKE (K-12)**

CT-0350-09S

1 semester credit hour

Dates: May 1-2

Time: 8:00am-5:00pm

Location: LaJunta

Instructors: Joyce Webb, Melanie Phelps

Tuition Fee: \$130

Discover North America's most extensive dinosaur trackway. Picketwire Canyon contains the remnants of a Jurassic beach with over 1,300 dinosaur tracks. View dozens of ancient petroglyphs, and tour Old Bent's Fort and the ruins of an adobe homestead, a Spanish mission, and an old Spanish graveyard. This is a 13-mile, round-trip mountain biking adventure.

To register or for more information, contact:

Melanie Phelps, 719/440-7180

melaniephe@aol.comwww.coloradorivertrip.com

Summer 2010 Course Preview

SCOTLAND: THE HIGHLANDS OF GLADES AND LOCHS (K-12)

CT-0706-10D
4 semester credit hours
Dates: June 4-12
Location: Scottish Highlands
Instructor: Joyce Webb
Tuition Fee: \$2500 plus airfare

Journey along mossy mountains, salty isles, and bottomless lochs. Taste haggis, hear bagpipes, and feel the winds of history blowing through the glens. Go time tripping through stone castles, and savor the pristine atmosphere of the Isle of Skye. Wander with us along the back lanes of Edinburgh and scan Loch Ness for legendary monsters.

To register or for more information, contact:

Melanie Phelps, 719/440-7180
melaniephe@aol.com
www.coloradorivertrip.com

ECOLOGICAL CATTLE RANCHING (K-12)

CT-0300-10D
3 semester credit hours
Dates: June 12-19
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 canyonslands of southwest Colorado.

To register or for more information, contact:

Catherine Entihar
970/883-2548 or cjscolors@frontier.net

ITALY REVEALED: EXPLORING THE ANCIENT LAND OF THE ROMANS (K-12)

CT-0805-10D
5 semester credit hours
Dates: June 12-23
Location: Italy
Instructor: Joyce Webb
Tuition Fee: \$2,985 plus airfare

Travel from Roman temples to medieval churches, and from the ruins of Pompeii to Vatican City's treasure trove. Walk through the Roman Forum and sleep in the city of Siena. Experience Florence, the artistic capital of the world; hike along Le Cinque Terra, the sun-drenched Italian Riviera; marvel at the Leaning Tower of Pisa; and absorb Venice, the most romantic city in the world.

To register or for more information, contact:

Melanie Phelps, 719/440-7180
melaniephe@aol.com
www.coloradorivertrip.com

GATES OF LODORE AND BROWNS PARK RIVER TRIP (K-12)

CT-1004-10D
5 semester credit hours
Dates: June 20-29
Location: Flaming Gorge Reservoir
Instructor: Melanie Phelps
Tuition Fee: \$2,000

Explore the wilds of the west along the beautiful Green River. Delve into the geology of the Uintah Mountains, explore petroglyphs and dinosaurs of Vernal then canoe past river otters, moose, and birds of Brown's Park Wildlife Reserve. White water raft for 5 days through one of the most spectacular canyons of the west – the Gates of Lodore.

To register or for more information, contact:

Melanie Phelps, 719/440-7180
melaniephe@aol.com
www.coloradorivertrip.com

ALL ABOUT MINING: A TOTAL CONCEPT OF THE MINING INDUSTRY (K-12)

CT-5700-10M
6 semester credit hours
Dates: June 21-July 16
Time: 7:30am-early afternoon (except on all-day field trips)
Location: CSM campus, Golden
Instructors: Seventy-five authorities from industry, government, academia & private groups
Course Coordinator: Dan Witkowsky, 303/972-1814, DanielWitkowsky@aol.com
Tuition Fee: \$200

Obtain a general overview of the minerals industries, including geology, mining, ore-processing, environmental responsibility, career opportunities, etc., from industry experts via classroom lectures and nine days of field trips to surface/underground mines and processing plants. Finish the course with a set of lesson plans, developed by course participants, that you can apply in your classroom this fall.

To register or for more information, contact:

CMA Education Foundation, Inc.
303/575-9199, FAX 303/575-9194
<http://www.allaboutmining.org>

PARIS TO NORMANDY: WORLD WAR I AND II SITES (K-12)

CT-0964-10M
4 semester credit hours
Dates: June 23-July 3
Locations: Belgium & France
Instructor: Joyce Webb
Tuition Fee: \$2,450 plus airfare

Explore trenches and bunkers used during the German occupation of Belgium's North Coast. Tour the battlefields in Southern Belgium's Flanders Field then travel to Normandy for an in-depth view of WWII's beaches, cemeteries and other war sites. Continue your journey to Paris for a visit to one of the world's best WWI and II museums. Learn how the German occupation affected Belgium, Paris, and the rest of France.

To register or for more information, contact:

Melanie Phelps, 719/440-7180
melaniephe@aol.com
www.coloradorivertrip.com

HIGH COUNTRY EQUESTRIAN ADVENTURE I (K-12)

CT-9667-10M

3 semester credit hours

Dates:

Session I: June 27-July 2

Session II: July 11-16

Session III: July 25-30

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

THE GRAND CANYON OF THE COLORADO – THE ULTIMATE RIVER EXPEDITION (K-12)

CT-0428-10M

3.5 semester credit hours

Dates: July 1-7

Location: Cliff Dweller's Lodge, AZ

Instructor: Melanie Phelps

Tuition Fee: \$2,740

Experience the stunning geology of more than two billion years of earth history as you whitewater raft through some of the world's most famous rapids. Includes 6.5 days on a motorized raft, helicopter airlift to the rim, flight on a twin engine plane, and all food. This is the ultimate river trip.

To register or for more information, contact:

Melanie Phelps, 719/440-7180
melaniephe@aol.com
www.coloradorivertrip.com

MUSEUMS OF PARIS (K-12)

CT-04132-10M

4 semester credit hours

Dates: July 3-11

Location: Paris, France

Instructor: Joyce Webb

Tuition Fee: \$2,100 plus airfare

Visit the Louvre, Orsay, Rodin, and Picasso Museums plus tour Versailles. Climb Notre-Dame, cruise the Seine, zip up the Eiffel Tower, and saunter down the Avenue des Champs Elysees to the Arc de Triomphe. Capture the romance and joie de vivre that Paris exudes.

To register or for more information, contact:

Melanie Phelps, 719/440-7180
melaniephe@aol.com
www.coloradorivertrip.com

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:

E-mail: _____

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:

Teacher Enhancement Program
Colorado School of Mines
P.O. Box 4028
Golden, CO 80401-0028
FAX: (303) 273-3314
Phone: (303) 273-3303
<http://te.csmspace.com>

To pay by credit card:

VISA MC AMEX DC

Card # _____

Exp. Date: _____

Cardholder Name: _____

Signature: _____