

Teacher Enhancement Program for K-12 Educators

AT THE COLORADO SCHOOL OF MINES



FALL 2011

<http://te.csmspace.com>

COLORADO SCHOOL OF MINES

Teacher Enhancement Program

Fall 2011

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.

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

ANIMAL TRACKING: THE SCIENTIFIC METHOD IN ACTION (K-12)

CT-9938-11F

1 semester credit hour

Dates: September 24-25

Time: 9:00am-5:00pm

Location: CSM campus, Golden

Instructor: Marty Colon

Tuition Fee: \$130

Tracking is a basic naturalist's skill that will greatly expand your experience, knowledge, and understanding of nature. Learn a systematic method that will enable you to identify virtually any North American mammal's footprints.

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

FIELD STUDIES IN PALEONTOLOGY: DINOSAUR RIDGE PALEOECOLOGY (K-12)

CT-1145-11F

0.5 semester credit hour

Date: October 1

Time: 8:00am-5:45pm

Location: Trip begins and ends in Cripple Creek

Instructors: Steven Veatch, Gregory Kats

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

Registration Fee: \$53 (includes transportation, lunch, and resource CD)

Paleoecology relies on the use of fossils to study relationships among organisms and environments of the past. Paleontologists interpret clues to reconstruct not only what extinct animals and plants looked like but also when and where they lived and under what environmental conditions. Focus will be on the late Jurassic and Cretaceous ecology of Dinosaur Ridge and the dinosaur tracks preserved there.

To register or for more information, contact:

Cripple Creek Parks and Recreation

719/689-3514

TALES AND TRAILS OF COLORADO GHOST MINES (K-12)

CT-1165-11F

1 semester credit hour

Dates: October 1-2

Time: 8:00am-5:00pm

Location: Fairplay

Instructor: Melanie Phelps

Tuition Fee: \$140

Capture gold fever as you explore mines, mills, and ghost towns near Fairplay. Creep softly through Alma's past looking for the legendary Silver Heels, trek through twisted rails in Leavick, and let the timberline mines and railroad history of Como ignite your imagination. Relive the fortunes, dreams, and disasters of Colorado mining history.

To register or for more information, contact:

Melanie Phelps, 719/561-0859

melaniephe@aol.com

www.coloradorivertrip.com

THE MAJESTIC SANGRE DE CRISTOS: GHOST TOWNS AND GEOLOGY (K-12)

CT-1077-11F

1 semester credit hour

Dates: October 8-9

Time: 8:00am-5:00pm

Location: Westcliffe

Instructor: Melanie Phelps

Tuition Fee: \$140

The Sangre de Cristos tower above the Wet Mountain Valley, hiding secrets of gold, silver, volcanoes, and ghost towns amid some of the most spectacular geology in Colorado. Explore a hill that was 97% silver and learn the lives of the people who mined it. Discover evidence for the Ancestral Rockies, the Rio Grande Rift, an ancient volcano, and the immense beauty of the Sangre de Cristo Mountains.

To register or for more information, contact:

Melanie Phelps, 719/561-0859

melaniephe@aol.com

www.coloradorivertrip.com

2011 NATIONAL ASSOCIATION OF BIOLOGY TEACHERS PROFESSIONAL DEVELOPMENT CONFERENCE (GR. 7-12)

CT- 1164-11F

1 semester credit hour

Dates: October 12-15

Time: 8:00am-5:00pm

Location: Anaheim Marriott, CA

Course Coordinator: Mike Sipes, 303/237-4975

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

Registration Fee: varies, see website

Climate change, stem cell research, plant diversity, and evolution are just a few of the topics that will be presented at this year's conference. This will be an excellent venue for biology teachers to network with other educators throughout the U.S. and abroad.

To register or for more information:

www.nabt.org

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

CT-0916-11F

0.5 semester credit hour

Date: October 22

Time: 9:00am-5:00pm

Location: Dumb Friends League, Denver

Instructor: Nicole Schimming

Tuition Fee: \$68

Can kids be trained? Absolutely! Learn about classical and operant conditioning. Clicker train one of our ambassador pets and learn how to apply similar techniques in your own classroom. Tour behind the scenes at our shelter and learn about how we help pets using positive reinforcement.

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

DIGITAL PHOTOGRAPHY ONLINE (K-12)

CT-0562-11F

1.5 semester credit hours

Dates: November 1-30

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. 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

ADOBE PHOTOSHOP ELEMENTS ONLINE (K-12)

CT-0737-11F

1.5 semester credit hours

Dates: November 1-30

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. 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-05120-11F

1.5 semester credit hours

Dates: November 1-30

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. 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

OCEAN LITERACY (PREK-12)

CT-0710-11F

0.5 semester credit hour

Date: November 5

Time: 9:30am-5:30pm

Location: Downtown Aquarium, Denver

Course Coordinators: Alyce Todd, 303/561-4638 or

Colleen Shipley, 303/561-4565

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

Registration Fee: \$75

Even though Colorado is not near an ocean, we are tied to it in many ways. Ocean literacy is an understanding of the ocean's influence on you, and your influence on the ocean. Learn the 7 essential principles of ocean literacy through interactive lessons and visiting the Aquarium residents.

To register or for more information, contact:

Downtown Aquarium Sales & Service Center

303/561-4444

OBSERVING, INVESTIGATING, AND WRITING: PATHWAYS TO DISCOVERY (K-12)

CT-1166-11F

0.5 semester credit hour

Date: November 5

Time: 8:30am-5:30pm

Location: Cripple Creek Parks & Recreation

Instructor: Steve Veatch

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

Registration Fee: \$99 (includes lunch)

Learn to write clearly and effectively about science and nature. Observation of the natural world is a direct pathway to science, nature, and discovery. By learning observation techniques of the natural world and basic research skills, students are motivated to interpret and write about what they have learned. Topics will include basic research, writing techniques and tips, using illustrations, science photography, and publication issues.

To register or for more information, contact:

Cripple Creek Parks & Recreation

719/689-3514

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

CT-9157-11F

1 semester credit hour

Dates: December 3 & 10

Time: 9:00am-5:00pm

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.

Additional Programs of Interest

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.

DIGGING INTO THE DATA: AN EARTH SYSTEMS WORKSHOP (GR. 6-12)

CT-1174-11F

1.5 semester credit hours

Dates: September 23-24 & November 4

Time: 8:00am-4:30pm

Instructor: Kate Geer, 303/370-6441

Tuition Fee: \$70 (Generous support of this workshop provided by NASA)

Focus on how to use data and models effectively in your classroom while exploring topics such as water, natural resources, and comparative planetology and climate. Experience some of the Museum's cutting-edge technologies, including Science on a Sphere, a room-size global display system that visualizes planetary data on a large sphere. Learn about current research being conducted and share ideas with your colleagues in order to bring more effective and meaningful use of data and models into your teaching. Receive a \$300 stipend upon successful completion.

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

CT-1072-11F

2 semester credit hours

Dates: October 1-November 19

October 1 (8:00am-4:30pm)

October 22 (8:00am-4:30pm)

November 19 (8:00am-12:30pm)

Instructor: Kate Geer, 303/370-6441

Tuition Fee: Check website for updated cost and information

Pre-requisite: For practicing 6-8 grade teachers only.

Build your science knowledge base and help develop your students' 21st century skills. Focus on how to effectively use the Museum as a learning resource 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.

BODY OF KNOWLEDGE: HYBRID ONLINE COURSE (GR. 5)

CT-1161-12S

2 semester credit hours

Dates: January 21-March 22

January 21 (9:00am-3:00pm)

February 15 (4:30-8:30pm)

March 22 (4:30-6:30pm)

Instructor: Kate Geer, 303/370-6441

Tuition Fee: \$80

Pre-requisite: For practicing 5th grade teachers only.

Build your health science knowledge base and learn how to encourage your students to maintain a healthy lifestyle. Focus on how to effectively use the Museum resources and other materials for learning and enhancing your understanding of key concepts in health science. Learn how to make health science relevant to your students' lives through cutting-edge teaching technologies. For more information and an online schedule, visit dmns.org/teachers/professional-development.

<p>To register for any DMNS course, contact: DMNS Reservations, 303/370-6000 Monday- Friday 9:00am-5:00pm</p>
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Denver Zoo Course Offerings

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

ASIAN TROPICS: INNOVATION IN SUSTAINABILITY AT THE ZOO & YOUR CLASSROOM (GR. 3-12)

CT-1168-11F
0.5 semester credit hour
Date: October 22
Time: 8:30am-4:30pm
Tuition Fee: \$90

Get the inside scoop on Denver Zoo's newest exhibit *Asian Tropics*, opening late spring 2012. Discover how it can be a model for teaching sustainable practices. Explore the science of gasification - the technology that will convert the zoo's waste to power, and how your students can apply scientific principles to create similar technology in the classroom. Programming based on Colorado state academic standards. Complete an Asian Tropics workshop and receive 10% off an on-site Asian Tropics program.

ASIAN TROPICS: USING THE EXHIBIT TO INSPIRE INQUIRY (PREK-12)

CT-1169-11F
0.5 semester credit hour
Date: November 5
Time: 8:30am-4:30pm
Tuition Fee: \$90

Get the inside scoop on Denver Zoo's newest exhibit *Asian Tropics*, opening late spring 2012. Discover ways to connect your students to the animals and people in Asian Tropical ecosystems through guided and open inquiry. Discuss what it means to save wildlife by helping people, and find ways to inspire your students to be young scientists. Learn about the new Asian Tropics exhibit and perform your own inquiry investigation on zoo grounds! Programming based on Colorado state academic standards. Complete an Asian Tropics workshop and receive 10% off an on-site Asian Tropics program.

ASIAN TROPICS: CONNECTING STUDENTS TO A BIO-DIVERSE ECOSYSTEM (PREK-12)

CT-1170-11F
0.5 semester credit hour
Date: December 3
Time: 8:30am-4:30pm
Tuition Fee: \$90

Get the inside scoop on Denver Zoo's newest exhibit *Asian Tropics*, opening late spring 2012. Explore the connections between people, animals, and plants as you uncover the amazing biodiversity of tropical Asia. Learn about the exceptional adaptations of animals such as Asian elephants, greater one-horned Indian rhinos, and clouded leopards. Discover how your students can connect to conservation in this distant ecosystem. Programming based on Colorado state academic standards. Complete an Asian Tropics workshop and receive 10% off an on-site Asian Tropics program.

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.

Cheyenne Mountain Zoo Course Offerings

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

PENGUINS ON PARADE (GR. 2-7)

CT-1131-11F

0.5 semester credit hour

Date: September 24

Time: 9:00am-5:00pm

Location: Cheyenne Mtn. Zoo, Colorado Springs

Instructor: Joy Schkade

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

Registration Fee: \$55.25 members; \$65.25 non-members
(lunch provided)

Did you know that the African Black-footed Penguin was recently placed on the Endangered Species list? Find out why and learn what the Zoo is doing to help. Receive an educational packet that you can use in your classroom to engage your students and explore how to join in the Zoo's conservation efforts.

PACHYDERMS IN PERIL (K-12)

CT-1132-11F

0.5 semester credit hour

Date: October 8

Time: 9:00am-5:00pm

Location: Cheyenne Mtn. Zoo, Colorado Springs

Instructor: Joy Schkade

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

Registration Fee: \$55.25 members; \$65.25 non-members
(lunch provided)

This workshop will feature pachyderms such as the African Elephant, hippopotamus, tapir, and rhinoceros. Dive into behavioral, physical, and environmental problems that face these magnificent creatures, and learn how they interact with each other and their environment.

HAPPY "THANKS GIBBON" (K-12)

CT-1133-11F

0.5 semester credit hour

Date: November 12

Time: 9:00am-5:00pm

Location: Cheyenne Mtn. Zoo, Colorado Springs

Instructor: Joy Schkade

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

Registration Fee: \$55.25 members; \$65.25 non-members
(lunch provided)

Spend the day with some very playful and charismatic primates, and learn practical ways you and your students can become involved locally to help save the Lar and White-cheeked Gibbons. Through smart consumer choices we can protect these unique primates and their habitat.

BIG CATS IN CRISIS (K-12)

CT-1134-11F

0.5 semester credit hour

Date: December 3

Time: 9:00am-5:00pm

Location: Cheyenne Mtn. Zoo, Colorado Springs

Instructor: Joy Schkade

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

Registration Fee: \$55.25 members; \$65.25 non-members
(lunch provided)

Discover two of the world's most endangered felines and how saving these unique cats is vital to the vast biodiversity we call Earth. Visit the tigers and leopards behind the scenes and get hands-on activities to take back to your classroom.

To register or for more information, contact:

Erin Hobson, 719/633-9925 (x127) or

edprograms@cmzoo.org

To register online:

www.cmzoo.org/exploreLearn/adults/classes.asp

Butterfly Pavilion Course Offerings

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

DEMYSTIFYING THE NEW COLORADO ACADEMIC STANDARDS (K-12)

CT-1167-11F

0.5 semester credit hour

Date:

Session I: September 24

Session II: November 19

Time: 8:00am-5:00pm

Location: Butterfly Pavilion, Westminster

Instructor: Debbie Brooks

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

Registration Fee: \$45

The new standards are expected to be adopted by all school districts by December 2011. Are you ready? The new standards are designed for clarity, purposeful teaching and learning, and require careful study and thinking before lesson plans and curriculum frameworks can be aligned. Learn the background for the new standards and how to navigate through the templates and interpret new language. Receive a spiral-bound standards book in your choice of one content area.

ART AND SCIENCE SERIES (GR. 5-12)

CT-0921-11F

0.5 semester credit hour

Location: Butterfly Pavilion, Westminster

Instructors: Kris Pohl, Deborah Brooks

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

BATIK & INSECTS

Date: November 6

Time: 1:00pm-5:00pm

Registration Fee: \$45

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 6

Time: 8:00am-12:00pm

Registration Fee: \$45

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:
Nicole Bickford, 720/974-1873
nbickford@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-0463-11F

1 semester credit hour

Dates & Times:

September 10 (12:00-7:00pm)

September 11 (8:00am-4:00pm)

Location: EcoAdventures, Morrison

Instructor: Pam Batton

Tuition Fee: \$130 (**\$150 after August 26th**)

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.

TEACHING COLORADO MINING HISTORY IN THE CLASSROOM (K-12)

CT-1171-11F

1 semester credit hour

Dates & Times:

September 17 (9:00am-5:00pm)

September 18 (9:00am-4:00pm)

Location: EcoAdventures, Morrison

Instructor: Trey Corkern

Tuition Fee: \$135 (**\$155 after Sept. 1st**)

From Spanish gold seekers to Greek coal miners, Colorado's history has centered on mineral wealth. Explore gold, silver, coal, and uranium mining, pan for gold, use a single jack to drill, tour a mining facility, and learn how to bring hands-on activities into your classroom.

ELK BUGLING (K-12)

CT-95105-11F

1 semester credit hour

Dates: September 24-25

Time: 12:00pm-7:30pm

Location: EcoAdventures, Morrison

Instructor: Pam Batton

Tuition Fee: \$135 (**\$155 after Sept. 8th**)

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-0756-11F

1 semester credit hour

Dates & Times:

October 1 (10:00am-6:00pm)

October 2 (9:00am-4:00pm)

Location: EcoAdventures, Morrison

Instructor: Pam Batton

Tuition Fee: \$140 (**\$160 after Sept. 15th**)

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.

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

CT-1101-11F

1 semester credit hour

Dates & Times:

October 15 (9:00am-5:00pm)

October 16 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$135 (**\$155 after Sept. 29th**)

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.

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

CT-0757-11F

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$130 (**\$150 after October 20th**)

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-0122-11F

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$135 (**\$155 after October 27th**)

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-9860-11F

1 semester credit hour

Dates & Times:

December 3 (9:00am-5:00pm)

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

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$130 (**\$150 after Nov. 17th**)

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-0700-12S

1 semester credit hour

Dates & Times:

January 21 (9:00am-5:00pm)

January 22 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$135 (**\$155 after January 5th**)

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-9616-12S

1 semester credit hour

Dates & Times:

February 11 (9:00am-5:00pm)

February 12 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$130 (**\$150 after January 26th**)

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-9960-12S

1 semester credit hour

Dates & Times:

February 25 (9:00am-5:00pm)

February 26 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$135 (**\$155 after Feb. 9th**)

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-9712-12S

1 semester credit hour

Dates & Times:

March 10 (8:00am-5:00pm)

March 11 (9:00am-3:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$140 (**\$160 after February 23rd**)

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.

THIRTEEN THOUSAND YEARS OF COLORADO HISTORY (K-12)

CT-1069-12S

1 semester credit hour

Dates & Times:

March 17 (9:00am-5:00pm)

March 18 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$135 (**\$155 after Feb. 1st**)

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.

BIRDS OF PREY (K-12)

CT-9614-12S

1 semester credit hour

Dates & Times:

April 14 (12:00pm-7:30pm)

April 15 (8:30am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$135 (**\$155 after March 29th**)

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

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.

BASIC PROJECT LEARNING TREE (PREK-12)

CT-0822-11F

0.5 semester credit hour per workshop

Workshop I:

Date: September 17

Time: 8:30am-4:30pm

Location: Metro State, Denver

Registration Fee: \$20

Workshop II (Tree by Tree-The Mile High Million):

Date: November 13

Time: 8:30am-4:30pm

Location: Denver Botanic Gardens

Registration Fee: \$25 (returned at workshop)

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

Registration Contact: Shawna Crocker, 303/202-4662
or scrocker@colostate.edu

BURNING ISSEUS AND FOREST ECOLOGY (GR. 1-12)

CT-9940-11F

1 semester credit hour

Dates & Times:

9:00am, October 22 through 4:00pm, October 23

Location: Woodland Park

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

Registration Fee: \$50 (includes lodging and meals)

Registration Contact: Shawna Crocker, 303/202-4662
or scrocker@colostate.edu

BASIC PROJECT WILD AND LEARNING TREE USING SHELTERED INSTRUCTION FOR SECOND LANGUAGE LEARNERS (K-12)

CT-0823-11F

1 semester credit hour

Dates & Times:

9:30am, November 12 through 4:00pm, November 13

Location: Cal-Wood Ed. Center, Jamestown

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

Registration Fee: \$105 (includes meals and lodging)

Registration Contact: Rafael Salgado, 303/449-0603

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
or www.pltworkshops.blogspot.com/

Spring 2012 Course Preview

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

CT-0301-12S
1 semester credit hour
Dates: February 18-19
Time: 8:00am-5:00pm
Location: Leadville
Instructor: Melanie Phelps
Tuition Fee: \$140

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 Healy House. 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, 719/252-1789
melaniephe@aol.com
www.coloradorivertrip.com

BELIZE: CORAL REEFS AND MAYA RUINS (K-12)

CT-1112-12S
4.5 semester credit hours
Dates: March 24-April 1
Location: Belize, Central America
Instructor: Melanie Phelps
Tuition Fee: \$2,300 (includes airfare, lodging, ground transportation)

Submerge yourself in the colorful world of the Belize coral reefs. Explore the fish as they change sexes, groom each other, and develop complex relationships of symbiosis. Then wander into the land of the ancient Mayans, with their extravagant architecture, rituals, and games.

To register or for more information, contact:

Melanie Phelps, 719/252-1789
melaniephe@aol.com
www.coloradorivertrip.com

SPAIN: HISTORY OF CRUSADERS AND KINGS (K-12)

CT-1201-12S
4 semester credit hours
Dates: March 24-April 1
Locations: Spain
Instructor: Joyce Webb
Tuition Fee: \$3,670 (includes airfare, lodging, ground transportation, tours)

Experience Spain from the art and architecture of Madrid to Sevilla's Alcazar, Christopher Columbus' tomb, and the romance of Flamenco dancers. Visit the Rock of Gibraltar and take a day trip to the mysterious Tangiers on Africa's Moroccan coast. Wander Granada's grand Alhambra while learning of Spain's tangled history.

To register or for more information, contact:

Joyce Webb, 719/229-5482
joycewebb@ymail.com
www.coloradorivertrip.com

DIGITAL PHOTOGRAPHY AND POWERPOINT ONLINE (K-12)

CT-05120-12S
1.5 semester credit hours
Dates: April 1-30
Instructor: John LaFerlita
Tuition 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

DIGITAL PHOTOGRAPHY ONLINE (K-12)

CT-0562-12S
1.5 semester credit hours
Dates: April 1-30
Instructor: John LaFerlita
Tuition 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 online 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-0737-12S
1.5 semester credit hours
Dates: April 1-30
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 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

CLIFF DWELLINGS AND VOLCANOES OF NEW MEXICO (K-12)

CT-1031-12S

1 semester credit hour

Dates: April 28-29

Time: 8:00am-5:00pm

Location: meet in Pueblo; drive to NM

Instructor: Melanie Phelps

Tuition Fee: \$140

Experience the volcanoes of New Mexico and the Bandelier ruins of the ancient Pueblo Indians who tunneled their homes into volcanic tuff cliffs. See the youngest volcanic fields in the continental U.S., with cinder cones, a massive caldera, radial dikes, and more. Discover the Rio Grande Rift, which causes the volcanoes as North America is being stretched apart. Learn the history of southern Colorado coal mines and labor wars, and tour the site of the Ludlow Massacre.

To register or for more information, contact:

Melanie Phelps, 719/252-1789

melaniephe@aol.com

www.coloradorivertrip.com

PICKETWIRE DINOSAUR TRACKS BY MOUNTAIN BIKE (K-12)

CT-0350-12S

1 semester credit hour

Dates: May 5-6

Time: 8:00am-5:00pm

Location: LaJunta

Instructor: Melanie Phelps

Tuition Fee: \$140

Mountain bike 13 miles round trip to see a fossilized Jurassic beach containing over 1300 dinosaur tracks, some big enough to sit in. This important site showed scientists that dinosaurs were herding animals. Tour Old Bent's Fort and view stage coach ruts on the Old Stagecoach Trail. Learn Colorado history from the Jurassic to the Dust Bowl.

To register or for more information, contact:

Melanie Phelps, 719/252-1789

melaniephe@aol.com

www.coloradorivertrip.com

Summer 2012 Course Preview

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

CT-0964-12S
4 semester credit hours
Dates: May 26-June 5
Locations: Belgium & France
Instructor: Joyce Webb
Tuition Fee: \$3,970 (includes airfare, lodging, ground transportation, entry fees)

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:

Joyce Webb, 719/229-5482
joycewebb@ymail.com
www.coloradorivertrip.com

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

CT-0805-12D
5 semester credit hours
Dates: June 5-17
Location: Italy
Instructor: Joyce Webb
Tuition Fee: \$4,210 (includes airfare, lodging, ground transportation, entry fees)

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:

Joyce Webb, 719/229-5482
joycewebb@ymail.com
www.coloradorivertrip.com

MUSEUMS OF PARIS (K-12)

CT-04132-12D
4 semester credit hours
Dates: June 17-25
Location: Paris, France
Instructor: Joyce Webb
Tuition Fee: \$3,470 (includes airfare, lodging, ground transportation, entrance fees)

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:

Joyce Webb, 719/229-5482
joycewebb@ymail.com
www.coloradorivertrip.com

HAWAII: VOLCANOES & CORAL REEFS (K-12)

CT-0906-12D
4 semester credit hours
Dates: June 18-27
Location: Big Island of Hawaii
Instructor: Melanie Phelps
Tuition Fee: \$2,800 (includes airfare, ground transportation, lodging, entrance fees)

Explore Hawaii's Big Island – the newest land on earth. 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, 719/252-1789
melaniephe@aol.com
www.coloradorivertrip.com

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

CT-0419-12M
4 semester credit hours
Dates: June 25-July 3
Location: Ireland
Instructor: Joyce Webb
Tuition Fee: \$2,670 (includes airfare, lodging, ground transportation, and tours)

Experience the unpretentious simplicity of Ireland. Tour the southwestern 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 and climb the Rock of Cashel.

To register or for more information, contact:

Joyce Webb, 719/229-5482
joycewebb@ymail.com
www.coloradorivertrip.com

IRELAND II: DAWNING OF A NEW DAY (K-12)

CT-0905-12M
4 semester credit hours
Dates: July 2-10
Location: Eastern & Northern Ireland
Instructor: Joyce Webb
Tuition Fee: \$2,770 (includes airfare, lodging, ground transportation, and tours)

Tour Dublin, Belfast, and the east coast of Ireland. Discover the past as you gaze upon the Book of Kells, explore the tomb of Newgrange, and wander through the 6th century Monastery of Glendolough. Visit Trim Castle and explore the volcanic columns of the Giant's Causeway. The past and present become blended into another Irish adventure.

To register or for more information, contact:

Joyce Webb, 719/229-5482
joycewebb@ymail.com
www.coloradorivertrip.com

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

CT-0428-12M
3.5 semester credit hours
Dates: July 5-11
Location: Grand Canyon
Instructor: Melanie Phelps
Tuition Fee: \$2,750

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, 719/252-1789
melaniephe@aol.com
www.coloradorivertrip.com

THE GREEN RIVER – MAJESTIC JOURNEY FROM GLACIERS TO GORGES (K-12)

CT-0355-12M
5 semester credit hours
Dates: July 18-28
Locations: Yellowstone & Grand Teton National Parks,
Flaming Gorge, Dinosaur National Monument
Instructor: Melanie Phelps
Tuition Fee: \$1,600

Discover river headwaters, geysers, mud pots, and mountains while exploring Yellowstone and the Grand Tetons National Parks. Follow the Green River from its mother snowfields in the Wind River Range of Wyoming through the beautiful Flaming Gorge and into the sandstone cliffs of Dinosaur National Monument. Whitewater raft and canoe through convoluted canyons, and gaze upon dinosaur bones and Fremont rock art while conducting authentic environmental research.

To register or for more information, contact:

Melanie Phelps, 719/252-1789
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:

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: _____