

Teacher Enhancement Program for K-12 Educators

AT THE COLORADO SCHOOL OF MINES



FALL 2012

<http://te.csmspace.com>

COLORADO SCHOOL OF MINES

Teacher Enhancement Program

Fall 2012

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

THE WORLD OF WAPITI: ROCKY MOUNTAIN ELK (K-12)

CT-1252-12F
0.5 semester credit hour
Date: September 23
Time: 12:30-8:00pm
Location: RMNA, Estes Park
Instructor: Mel Cundiff
Tuition Fee: \$35 (**payable during workshop**)
Registration Fee: \$70

Experience the unique courtship rituals of the Rocky Mountain Elk while learning about their ecology. Study their origin, natural history, life cycle, and behavior. Experience the rut and rutting behaviors of these magnificent animals in Rocky Mountain National Park.

To register or for more information, contact:

Rachel Balduzzi, Rocky Mtn. Nature Association
970/586-3262 or Rachel.balduzzi@rmna.org

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

CT-9938-12F
1 semester credit hour
Dates: September 29-30
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 mammals footprints.

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

FIELD STUDIES IN PALEONTOLOGY: EXPLORING THE SHELF ROAD (K-12)

CT-0640-12F
0.5 semester credit hour
Date: October 6
Time: 8:30am-6:00pm
Location: Cripple Creek Parks & Recreation
Instructor: Steve Veatch
Tuition Fee: \$35 (**payable during workshop**)
Registration Fee: \$69

Starting from Cripple Creek, explore the geological and paleontological wonders along the Shelf Road. Follow the old wagon roads used to haul dinosaur bones from Garden Park to Canon City, visit a dinosaur quarry, and explore nearby dinosaur tracks. Field guide included.

To register or for more information, contact:

Cripple Creek Parks & Recreation
719/689-3514

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

CT-1165-12F
1 semester credit hour
Dates: October 6-7
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, 719/252-1789
melaniephe@aol.com
www.coloradorivertrip.com

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

CT-0916-12F
0.5 semester credit hour
Date: October 13
Time: 9:00am-5:00pm
Location: Dumb Friends League, Denver
Instructor: Nicole Schimming
Tuition Fee: \$70

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.

THE ILLUSTRATED FIELD JOURNAL (K-12)

CT-9939-12F
1 semester credit hour
Dates: October 13-14
Time: 9:00am-5:00pm
Location: CSM Campus, Golden
Instructor: Marty Colon
Tuition Fee: \$128

Learn to blend the approaches of artist, writer, and scientist to create a unique and powerful tool for exploring and learning about the natural world. Focus on skills and strategies for creating the Illustrated Field Journal regardless of artistic or writing experience.

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

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

CT-1077-12F

1 semester credit hour

Dates: October 13-14

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, 719/252-1789

melaniephe@aol.com

www.coloradorivertrip.com

2012 NATIONAL ASSOCIATION OF BIOLOGY TEACHERS PROFESSIONAL DEVELOPMENT CONFERENCE (GR. 6-12)

CT-1263-12F

1 semester credit hour

Dates: October 31-November 3

Time: 8:00am-5:00pm

Location: Hyatt Regency, Dallas, TX

Course Coordinator: Mike Sipes, 303/237-4975

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

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, contact:

National Association of Biology Teachers

888/501-6228 or www.nabt.org

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

CT-0915-12F

0.5 semester credit hour

Date: November 3

Time: 9:00am-5:00pm

Location: Dumb Friends League, Denver

Instructor: Nicole Schimming

Tuition Fee: \$70

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 (rabbits, ferrets, guinea pigs and mice). Meet with some of these small creatures and decide if a classroom pet is right for you and your classroom.

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

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

CT-9157-12F

1 semester credit hour

Dates: December 1 & 8

Time: 9:00am-5:00pm

Location: Dumb Friends League, Denver

Instructor: Nicole Schimming

Tuition Fee: \$125

How do you prevent violence and bullying? Teach students to care! 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.

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-0463-12F

1 semester credit hour

Dates & Times:

September 8 (12:00-7:00pm)

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

Location: EcoAdventures, Morrison

Tuition Fee: \$130 (**\$150 after August 23rd**)

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-1171-12F

1 semester credit hour

Dates & Times:

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

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

Location: EcoAdventures, Morrison

Instructor: Trey Corkern

Tuition Fee: \$135 (**\$155 after August 30th**)

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-95105-12F

1 semester credit hour

Dates: September 29-30

Time: 12:00pm-7:30pm

Location: EcoAdventures, Morrison

Instructor: Pam Batton

Tuition Fee: \$135 (**\$155 after Sept. 6th**)

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-0756-12F

1 semester credit hour

Dates & Times:

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

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

Location: EcoAdventures, Morrison

Tuition Fee: \$140 (**\$160 after Sept. 20th**)

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-1101-12F

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

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

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-0757-12F

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Tuition Fee: \$135 (**\$155 after October 18th**)

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-0122-12F

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

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

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-9860-12F

1 semester credit hour

Dates & Times:

December 1 (9:00am-5:00pm)

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

Location: CSM campus, Golden

Tuition Fee: \$130 (**\$150 after Nov. 15th**)

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.

IT'S SENSE'SATIONAL: HOW ANIMALS SEE, HEAR, SMELL, TOUCH, AND TASTE (K-8)

CT-96102-13S

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Tuition Fee: \$135 (**\$155 after Jan. 10th**)

Let your senses go "wild" and discover what it is like to explore the world using the senses of a variety of Colorado's animals. Understand how differently animals perceive the world with hands-on activities and "make and take" items. Try to follow an owl's acoustic map or see with animal vision.

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

CT-9616-13S

1 semester credit hour

Dates & Times:

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

February 10 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$135 (**\$155 after January 24th**)

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

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

CT-9960-13S

1 semester credit hour

Dates & Times:

February 23 (9:00am-5:00pm)

February 24 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$135 (**\$155 after Feb. 7th**)

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-9712-13S

1 semester credit hour

Dates & Times:

March 9 (8:00am-5:00pm)

March 10 (9:00am-3:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$140 (**\$160 after February 21st**)

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-1069-13S

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$135 (**\$155 after Feb. 28th**)

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-9614-13S

1 semester credit hour

Dates & Times:

April 6 (12:00pm-7:30pm)

April 7 (8:30am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$135 (**\$155 after March 21st**)

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.

TEACHING STEM WITH PROJECT LEARNING TREE (K-12)

CT-1266-12F
0.5 semester credit hour
Date: September 15
Time: 8:30am-4:30pm
Location: US Forest Service, Boulder
Instructor: Julie Stennes
Tuition Fee: \$35 (**payable during workshop**)
Registration Fee: \$25

Receive science-based activities that include math, applications of technology, and engineering. Develop skills

that include collaboration, invention, critical thinking, information literacy, and self-direction.

To register or for more information, contact:

Shawna Crocker
303/278-8822 or www.coloradoplnt.org

EXPLORE THE PAST, PRESENT & FUTURE OF OUR COLORADO FORESTS (GR. 3-8)

CT-1265-12F
0.5 semester credit hour
Date: November 3
Time: 8:30am-4:30pm
Location: History Colorado Museum, Denver
Tuition Fee: \$35 (**payable during workshop**)
Registration Fee: \$25

Sample some of PLT's history, economics, civics, and geography activities while exploring the new exhibits at the Museum. Learn how uses of our western forests – fires, mining, railroads, fuel-burning, building materials, and replanting – set the stage for our unhealthy forest conditions today.

To register or for more information, contact:

Shawna Crocker
303/278-8822 or www.coloradoplnt.org

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/

Butterfly Pavilion Course Offerings

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

ART AND SCIENCE SERIES (GR. 5-12)

CT-0921
0.5 semester credit hour
Location: Butterfly Pavilion, Westminster
Instructor: Deborah Brooks
Course Coordinator: Marissa Copan, 720/974-1877
Tuition Fee: \$35 (**payable during each workshop**)

BATIK & INSECTS/ DREAMCATCHERS AND SPIDERS

Date: September 30
Time: 8:00am-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. Then create a one-of-a-kind batik scarf. 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:

Adult Education, 720/974-1877
mcopan@butterflies.org

Spring 2013 Course Preview

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

CT-1112-13S

4 semester credit hours

Dates: March 23-31

Location: Belize, Central America

Instructor: Melanie Phelps

Tuition Fee: \$2,710 (includes airfare)

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-1201-13S

4 semester credit hours

Dates: March 23-31

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

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

CT-1031-13S

1 semester credit hour

Dates: April 27-28

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-0350-13S

1 semester credit hour

Dates: May 4-5

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 2013 Course Preview

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

CT-0805-13D

5 semester credit hours

Dates: June 6-18

Location: Italy

Instructor: Joyce Webb

Tuition Fee: \$4,410 (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

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

CT-5700-13M

6 semester credit hours

Dates: June 10-July 3

Time: approx. 8:00am-mid-late afternoon (except on all-day field trips)

Location: CSM campus, Golden

Instructors: more than eighty authorities from industry, government, academia & private groups

Tuition Fee: \$250 (\$300 for registrations after May 31)

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, colomine@coloradomining.org

www.allaboutmining.org

MUSEUMS OF PARIS (K-12)

CT-04132-13D

4 semester credit hours

Dates: June 18-26

Location: Paris, France

Instructor: Joyce Webb

Tuition Fee: \$3,670 (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

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

CT-0419-13M

4 semester credit hours

Dates: June 26-July 5

Location: Ireland

Instructor: Joyce Webb

Tuition Fee: \$2,870 (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

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

CT-0428-13M

3.5 semester credit hours

Dates: July 4-10

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

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

CT-0706-13M

4 semester credit hours

Dates: July 5-14

Location: Scotland

Instructor: Joyce Webb

Tuition Fee: \$3,570 (includes airfare, lodging, ground transportation, entry fees)

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 Hebrides Islands. Wander with us and scan Loch Ness for legendary monsters.

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-0906-13M

4 semester credit hours

Dates: July 16-25

Location: Big Island of Hawaii

Instructor: Melanie Phelps

Tuition Fee: \$3,270 (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

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

CT-0355-13M

5 semester credit hours

Dates: July 29-August 7

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 Teton 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>