Teacher Enhancement Program for K-12 Educators



http://te.csmspace.com

COLORADO SCHOOL OF MINES Teacher Enhancement Program

Fall 2017

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 <u>http://te.csmspace.com</u> for the most updated course listings.

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 <u>minus</u> 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 <u>each</u> course and for <u>each</u> 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

PERSEVERING PIKA: SECRETS OF ALPINE SURVIVAL (K-12)

CT-1534-17F 0.5 semester credit hour Date: September 2 Time: 8:30am-5:00pm Location: Rocky Mtn. Conservancy, Estes Park Instructor: Chris Ray Tuition Fee: \$40 (payable during workshop) Registration Fee: \$80

Have you ever wondered how non-hibernating animals like yourself might fare trying to survive in the alpine yearround? Watch the American pika demonstrate its survival strategy. Pikas and their hibernating neighbors, yellowbellied marmots, chipmunks, and squirrels, are easy to watch in the summer and fall as they forage among the alpine wildflowers. Learn how to spot different animals behaviors that provide clues to how each survives the long, cold winter.

To register or for more information, contact:

Rachel Balduzzi, Rocky Mtn. Conservancy 970/586-3262 or

Rachel.balduzzi@rmconservancy.org

EXPLORING CHANNEL ISLANDS NATIONAL

PARK (GR. 6-12) CT-1723-17F 1.5 semester credit hours Dates: September 27-October 1 Location: Ventura, CA Course Coordinator: Mile Sipes Tuition Fee: \$85 (payable during trip) Registration Fee: \$675 (includes lodging, meals, ground transportation, fees)

Experience the unforgettable opportunity to explore the "Galapagos of North America" - Channel Islands National Park. The Channel Islands, and the waters surrounding them, are home to one of the most biologically diverse concentrations of terrestrial and marine life in the world.

To register or for more information, contact:

Mike Sipes, 303/237-4975 mpsipes@centurylink.net

USING CITIZEN SCIENCE DATA IN THE CLASSROOM ONLINE (K-12)

CT-1620-17F 2 semester credit hours Dates: October 6-November 6 Instructors: H. Jean Bryan, Jessa Finch Tuition Fee: \$95 (**payable during workshop**) Registration Fee: \$70

Receive an overview of using citizen science data in a classroom setting. This course assumes a basic familiarity with the concept of citizen science. After reviewing several case studies from education-friendly citizen science projects – Project BudBurst, eBird, FrogWatch, Picture Post, and CoCoRaHS - you will apply your new learning by creating a lesson plan that meets national education standards

To register or for more information:

H. Jean Bryan, Chicago Botanic Garden 847/835-6945 or jbryan@chicagobotanic.org

EcoAdventure Course Offerings

Note: Register for EcoAdventure courses through EcoAdventures. See box below.

ELK BUGLING (K-12)

CT-95105-17F 1 semester credit hour Dates: September 23-24 Time: 12:00pm-7:30pm Location: EcoAdventures, Morrison Instructor: Pam Batton Tuition Fee: \$165 (**\$185 after Sept. 7**th)

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.

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

CT-1101-17F 1 semester credit hour Dates & Times: October 7 (9:00am-5:00pm) October 8 (9:00am-4:00pm) Location: CSM campus, Golden Instructor: Trey Corkern Tuition Fee: \$160 (**\$180 after September 21**st)

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-0757-17F 1 semester credit hour Dates & Times: November 4 (9:00am-5:00pm) November 5 (9:00am-4:00pm) Location: CSM campus, Golden Instructor: Pam Batton Tuition Fee: \$160 (**\$180 after October 19th**)

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-0122-17F 1 semester credit hour Dates & Times: November 11 (9:00am-5:00pm) November 12 (9:00am-4:00pm) Location: CSM campus, Golden Instructor: Trey Corkern Tuition Fee: \$160 (**\$180 after October 26**th)

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-9860-17F 1 semester credit hour Dates & Times: December 2 (9:00am-5:00pm) December 3 (9:00am-4:00pm) Location: CSM campus, Golden Instructor: Pam Batton Tuition Fee: \$165 (**\$185 after Nov. 16**th)

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.

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.

WHALE SHARKS, HUMPBACKS & GRAY WHALES (K-12)

CT-1538-18S 4 semester credit hours Dates: February 17-25 Location: Baja Peninsula, Mexico Instructor: Melanie Phelps Tuition Fee: \$2,475 (does not include airfare)

Snorkel with whale sharks, the largest plankton eating fish. Experience Gray Whales in a bay where these magnificent mammals give birth, often swimming to the boats to be touched. Snorkel or dive near Cabo San Lucas to watch Humpback Whales playfully raising their young.

To register or for more information, contact: Melanie Phelps, 719/252-1789

melaniephe@aol.com www.coloradorivertrip.com

SANDHILL CRANES, SAND DUNES & HOT SPRINGS (K-12)

CT-1502-18S 1 semester credit hour Dates: March 3-4 Location: Alamosa Instructor: Melanie Phelps Tuition Fee: \$190 (includes entrance fees, credit)

View flocks of the 20,000 majestic Sandhill Cranes as they migrate through the wetlands near Alamosa. Hear their bugling call and watch their graceful mating dance. Learn about efforts to save the Whooping Crane and see many wetland birds. Learn the geology and tour the Sand Dunes and the Rio Grande Rift Zone.

> **To register or for more information, contact:** Melanie Phelps, 719/252-1789 <u>melaniephe@aol.com</u> www.coloradorivertrip.com

COSTA RICA: TROPICAL RAINFOREST LEGEND (K-12)

CT-1701-18S 4 semester credit hours Dates: March 24-April 1 Location: Costa Rica, Central America Instructor: Melanie Phelps Tuition Fee: \$2,475 (includes lodging, ground transportation, tours, credit)

Journey to the birding, mammal, and beach capital of Meso-America. Awaken to the calls of Howler and Capuchin Monkeys and 830 species of birds. Explore Monteverde Cloud Forest, LaSelva Research Station, Palo Verde, and Manuel Antonio National Parks. Study the geology and ecology of this narrow land bridge between continents as you explore the Legend of Biodiversity.

To register or for more information, contact:

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

COLORADO HISTORY BY TRAIN: DENVER TO GLENWOOD (K-12)

CT-1303-18S 1 semester credit hour Dates: April 14-15 Location: Denver to Glenwood Springs Instructor: Melanie Phelps Tuition Fee: \$490 (includes train fare, lodging, tours, credit)

Ride one of the last passenger trains in America, the Amtrak, from Denver through the historic Moffat Tunnel, Winter Park, Gore Canyon, and into Glenwood Springs. Explore caves and soak in the soothing waters the Ute Indians believed had magical powers. Learn the history of Colorado railroads and how the West was tamed.

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-0350-18S 1 semester credit hour Dates: May 5-6 Time: 8:00am-5:00pm Location: LaJunta Instructor: Melanie Phelps Tuition Fee: \$155 (includes credit)

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

CUBA: ITS COUNTRY, CULTURE, AND PEOPLE (K-12)

CT-1718-18D 3 semester credit hours Dates: June 16-23 Location: Havana & Pinar del Rio, Cuba Instructor: Elena Sodano, 303/204-8470 or sodano@mac.com

Tuition Fee: \$135 (payable during trip)

Registration Fee: \$2,990 (includes airfare, meals, lodging, ground transportation, entrance fees)

Discover Cuba, a mid-century time capsule where 1950's American autos and abandoned Soviet investments clash. Colonial architecture, UNESCO heritage sites, dramatic valleys, pristine beaches, and untouched rural communities are just a few reasons why Cuba is fascinating. Combine all this with Cuba's people to create the perfect educational and cultural experience.

To register:

Eli Arroyo Allen, Your Cuba Travel 910/635-6955 or eli@yourcubatravel.com

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

CT-1031-18D 1 semester credit hour Dates: June 23-24 Location: meet in Pueblo; drive to NM Instructor: Melanie Phelps Tuition Fee: \$155

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 <u>melaniephe@aol.com</u> www.coloradorivertrip.com

RUINS AND VOLCANOES OF NEW MEXICO II (K-12)

CT-1402-18D 2 semester credit hours Dates: June 25-28 Location: meet in Santa Fe, NM Instructor: Melanie Phelps Tuition Fee: \$335 (includes entrance fees, credit)

Explore the history of Santa Fe, a trading hub of Old Mexico. Hike through Petroglyph National Monument where the ancient natives etched 15,000 petroglyphs into the black basalt. Continue to El Malpais to explore lava tubes, pahoehoe, aa, cinder cones, craters, and calderas. Seek out the peacefulness of Chaco Canyon, one of the largest trade centers of the Ancient Pueblo Indians.

> **To register or for more information, contact:** Melanie Phelps, 719/252-1789 <u>melaniephe@aol.com</u> www.coloradorivertrip.com

BLACK HILLS: MAMMOTHS, MONUMENTS, AND WARS (K-12)

CT-1428-18M 2 semester credit hours Dates: July 2-6 Location: meet in Scotts Bluff, NE Instructor: Melanie Phelps Tuition Fee: \$420 (includes entrance fees and tuition)

Retrace the Oregon Trail near Scotts Bluff, Nebraska. Explore giant land mammals at Agate Fossil Beds, and solve the ancient mystery of an ancient bog where only male mammoths died. Discover the wonders of South Dakota: Custer State Park, Badlands, Mt. Rushmore, Crazy Horse, and The Little Bighorn, then wind your way through caves, and discover the secrets of Black Hills gold. In Wyoming, tour a bison cliff kill site, and the giant columns of Devil's Tower.

To register or for more information, contact:

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

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

CT-0428-18M 3.5 semester credit hours Dates: July 12-18 Location: Grand Canyon Instructor: Melanie Phelps

Instructor: Melanie Phelps Tuition Fee: \$3,115

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 <u>melaniephe@aol.com</u> www.coloradorivertrip.com

ALASKA: GLACIERS, GOLD, AND GRIZZLIES (K-12)

CT-1304-18M 6 semester credit hours Dates: July 27-August 11 Location: Alaska Instructor: Melanie Phelps Tuition Fee: \$5,705 (includes some airfare, ferry, tours, lodging, ground transportation, credit)

Explore Alaska's towering mountains with sparkling deep blue glaciers, fjords, whales, grizzlies, sea lions, and rookeries. Cruise the Inland Passage on the Marine Alaska Highway Ferry. Tour Ketchikan Totem Pole Park, Glacier Bay, Kenai Fjords, Denali, and Lake Clark to see fishing grizzlies. Price may vary slightly based upon air and ferry fares.

> **To register or for more information, contact:** Melanie Phelps, 719/252-1789 melaniephe@aol.com

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Course Enrollment Form

State:	Zip:	
	Date of Birth:	
	me)	
Grade Level:		
fer to receive a confirmation		
*re	quired if taking course for credit	
Native Haw	aiian or Other Pacific Islander	
White		
	State:(hon Gra fer to receive a confirmatio *reNative Haw	

Indicate the class(es) for which you are registering

Course #	Course Title	Course Dates	Tuition
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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