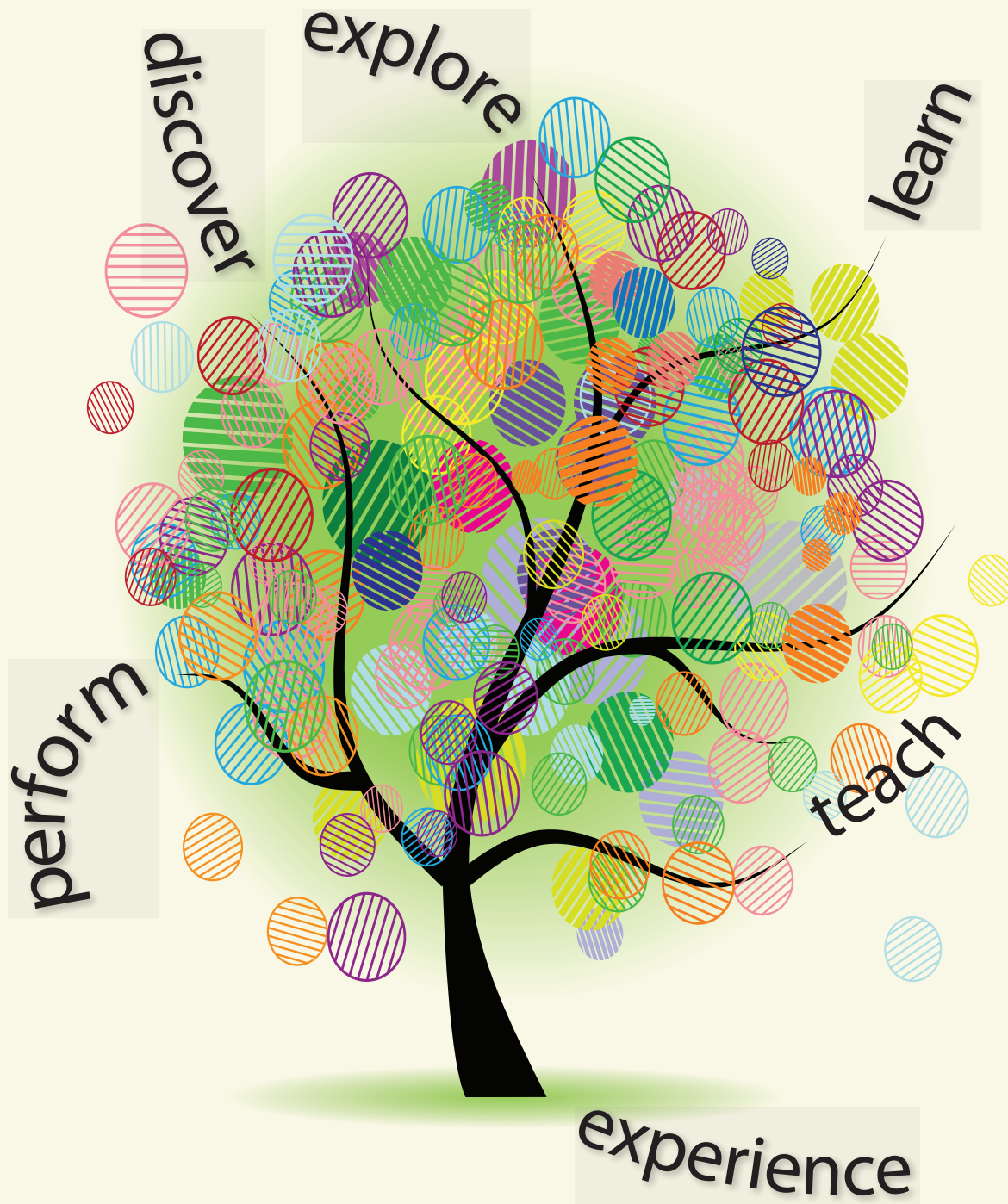


Teacher Enhancement Program for K-12 Educators

AT COLORADO SCHOOL OF MINES



SPRING 2019

COLORADO SCHOOL OF MINES

Teacher Enhancement Program

Spring 2019

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 check(s) should be mailed to:**

Teacher Enhancement Program
Colorado School of Mines
1600 Jackson St., Ste. 190
Golden, CO 80401-0028
(303) 384-2692

Courses are added to our website often, to view the most up-to-date course listings or to order an official transcript, visit our home page at: 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. We are unable to give you any information via phone or email on what courses appear on your transcript due to FERPA. 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 <http://te.csmspace.com>.

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.

Spring 2019 Course Offerings

INTRO TO PLANT PHENOLOGY AND CLIMATE CHANGE ONLINE (K-12)

CT-1213-19S
2 semester credit hours
Date: January 25-February 25
Instructors: H. Jean Bryan, Jessamine Finch
Tuition Fee: \$95 (**payable during workshop**)
Registration Fee: \$70

Discover how studying the life cycles of plants (phenology) reveal how plants respond to climate change. Explore an existing citizen science program that collects scientific data in the form of phenology observations. Implementation strategies are shared including guidance on selecting plants and making observations, suggestions for structuring classroom involvement, and ideas for educational activities to engage students in data analysis.

To register or for more information, contact:

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

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

CT-1538-19S
4 semester credit hours
Dates: February 16-24
Location: Baja Peninsula, Mexico
Instructor: Melanie Phelps
Tuition Fee: \$2,575 (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-1502-19S
1 semester credit hour
Dates: March 2-3
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
melaniephe@aol.com
www.coloradorivertrip.com

2019 ADVANCING ENVIRONMENTAL EDUCATION CONFERENCE (PREK-12)

CT-1903-19S
0.5-1 semester credit hour
Dates: March 15-16
Time: 8:00am-7:00pm
Location: UC Denver
Tuition Fee: \$50/\$65 (**payable during workshop**)
Registration Fee: member \$100 one day, \$160 two days

This action-packed environmental conference (also known as Teaching Outside the Box) offers engaging speakers and sessions, networking, now in its 19th year. Discover new ideas, and resources and techniques in environmental education for both inside and outside the classroom. This year's theme is "Looking Back, Moving Forward!" Register online at www.cae.org in December 2018.

To register or for more information, contact:

Kendra Occhipinti, CAEE
info@cae.org or 303/273-9527

COYOTES: THE SONG DOGS OF THE WEST (K-12)

CT-1309-19S
0.5 semester credit hour
Date: March 23
Time: 8:00am-4:00pm
Location: Rocky Mtn. Conservancy, Estes Park
Instructor: Jared Gricoskie
Tuition Fee: \$40 (**payable during workshop**)
Registration Fee: \$80

Coyotes are one of the most successful and resourceful predators. Explore the country's second largest canine's natural history, Native American stories, discovery by Lewis and Clark, and expansion to the east. Travel into RMNP to study coyote anatomy, habitat, social structure, and interactions with the ecosystem, prey, and mankind. Learn how wolves could impact coyotes in the future.

To register or for more information, contact:

Rachel Balduzzi, RMC
970/586-3262 or
Rachel.balduzzi@rmconservancy.org

COSTA RICA: TROPICAL RAINFOREST LEGEND (K-12)

CT-1701-19S
4 semester credit hours
Dates: March 23-31
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

MUSEUMS OF PARIS (K-12)

CT-04132-19S

4 semester credit hours

Dates: March 23-31

Locations: Paris

Instructor: Joyce Webb

Tuition Fee: \$3,670 (includes airfare, lodging, ground transportation, tours, credit)

Visit the Louvre, Orsay, Rodin, and Picasso Museums plus 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. Join us and help 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

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

CT-1303-19S

1 semester credit hour

Dates: April 13-14

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

100 YEARS OF ENVIRONMENTAL CHANGE (K-12)

CT-1516-19S

0.5 semester credit hour

Date: May 3

Time: 8:30am-4:30pm

Location: Rocky Mtn. Conservancy, Estes Park

Instructor: DeAnna Laurel

Tuition Fee: \$40 (payable during workshop)

Registration Fee: \$80

Receive an overview of the history of environmental change in the Park, emphasizing human-caused change. Discuss the history of mining, water engineering, recreational development and tourism, atmospheric inputs of dust and nitrates, wildlife management, and climate change in the context of protecting and restoring natural environments within the Park.

To register or for more information, contact:

Rachel Balduzzi, RMC

970/586-3262 or

Rachel.balduzzi@rmconservancy.org

NORTH WITH THE SPRING: BIRD MIGRATION (K-12)

CT-1308-19S

0.5 semester credit hour

Date: May 3

Time: 8:00am-4:30pm

Location: Rocky Mtn. Conservancy, Estes Park

Instructor: Jeff Maugans

Tuition Fee: \$40 (payable during workshop)

Registration Fee: \$80

April in the high country is a time when we welcome back birds that have spent the winter in warmer climates. Many return for the nesting season or stop to refuel before heading further north. Explore several locations in and around Estes Park and RMNP identifying as many species as possible by sight and sound, and learn about their natural history.

To register or for more information, contact:

Rachel Balduzzi, RMC

970/586-3262 or

Rachel.balduzzi@rmconservancy.org

FIRE IN ECOSYSTEMS: FRIEND OR FOE (K-12)

CT-1801-19S

0.5 semester credit hour

Date: May 4

Time: 8:00am-4:30pm

Location: Rocky Mtn. Conservancy, Estes Park

Instructor: Scott Franklin

Tuition Fee: \$40 (payable during workshop)

Registration Fee: \$80

Coming off one of the worst fire seasons of known western states' history, fire experts and citizens are grappling with the complexity of how climate change may alter fire disturbance regimes. Explore the role of fire in mountain forest ecosystems, typical fire regimes, synergistic disturbances, and predicted change with climate warming. Discuss the history of fire policy ranging from the 10am policy to the let burn policy, but with the caveat of the wildland-urban interface.

To register or for more information, contact:

Rachel Balduzzi, RMC

970/586-3262 or

Rachel.balduzzi@rmconservancy.org

PICKETWIRE DINOSAUR TRACKS BY MOUNTAIN BIKE (K-12)

CT-0350-19S

1 semester credit hour

Dates: May 4-5

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

TRACKING WILDLIFE IN ROCKY: SIGNS OF CREATURES BIG & SMALL (K-12)

CT-1905-19S
0.5 semester credit hour
Date: May 10
Time: 8:00am-4:30pm
Location: Rocky Mtn. Conservancy, Estes Park
Instructor: Jeff Connor
Tuition Fee: \$40 (**payable during workshop**)
Registration Fee: \$80

A story exists all around us as we walk through the woods. Animals use the same area we do, but often go unnoticed since much of their activity occurs off trails, at night, or early or late in the day. Do you know how to read the signs they leave behind. Walk through the woods, along streams and in meadows; look for animals and their signs; visit den sites used by bobcats, fox, coyote, and other animals; and search for nests used by birds. Be surprised by the abundance of sign left behind by our furred and feathered friends. The class will also provide a better understanding of community ecology and dynamics relative to hierarchical structure and trophic cascades.

To register or for more information, contact:

Rachel Balduzzi, RMC
970/586-3262 or
Rachel.balduzzi@rmconservancy.org

THE SURPRISING WORLD OF LICHENS (K-12)

CT-1901-19S
0.5 semester credit hour
Date: May 11
Time: 8:30am-4:30pm
Location: Rocky Mtn. Conservancy, Estes Park
Instructor: Jennifer Frazer
Tuition Fee: \$40 (**payable during workshop**)
Registration Fee: \$80

You cannot hike, bike, climb, or ski in Colorado without encountering lichens, but few take the time to notice or examine these ubiquitous organisms. Be blown away by the biology and beauty of these fascinating communities of organisms that live where no other life forms can. Learn about the inhabitants, anatomy, growth forms, and reproductive structures of lichens.

To register or for more information, contact:

Rachel Balduzzi, RMC
970/586-3262 or
Rachel.balduzzi@rmconservancy.org

LIFE AS AN OWL (K-12)

CT-1904-19S
0.5 semester credit hour
Date: May 17
Time: 4:00pm-midnight
Location: Rocky Mtn. Conservancy, Estes Park
Instructor: Jeff Maugans
Tuition Fee: \$40 (**payable during workshop**)
Registration Fee: \$80

Explore Rocky Mountain National Park in search of 3-4 species of owls during the spring courtship and nesting season. Listen for the vocalizations of Northern Pygmy, Northern Saw-whet, Flammulated and Great Horned Owls. Head into the field well before dark as Pygmy Owls are diurnal which provides a great opportunity to get great looks at this species, then listen for the other species and hopefully locate a nesting pair or two while seeing first-hand the habitats these species require.

To register or for more information, contact:

Rachel Balduzzi, RMC
970/586-3262 or
Rachel.balduzzi@rmconservancy.org

ENDANGERED SPECIES OF THE ROCKIES (K-12)

CT-1900-19S
0.5 semester credit hour
Date: May 17
Time: 8:00am-4:30pm
Location: Rocky Mtn. Conservancy, Estes Park
Instructor: Gary Miller
Tuition Fee: \$40 (**payable during workshop**)
Registration Fee: \$80

Concerned about threatened or endangered species and their preservation? How do species come to be at the brink of extinction, and how can they be recovered? The answers lie in the landmark Endangered Species Act of 1973 (ESA), the emerging science of conservation biology, and the resulting actions taken by scientists and citizens. Delve into these topics and their application in recovery efforts in RMNP. The case histories (including little-known backstories) of efforts to recover peregrine falcons, Canada lynx, North American wolverine, and greenback cutthroat trout each demonstrate different aspects of endangered species management. The class includes a visit to a nesting area of the once-endangered/ now-recovered peregrine falcon.

To register or for more information, contact:

Rachel Balduzzi, RMC
970/586-3262 or
Rachel.balduzzi@rmconservancy.org

EcoAdventure Course Offerings

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

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

CT-0700-19S

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$165 (**\$185 after January 10th**)

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-9616-19S

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: \$165 (**\$185 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.

WOMEN OF COLORADO (K-12)

CT-1720-19S

1 semester credit hour

Date & Time:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$165 (**\$185 after Jan 31st**)

Colorado has been the crucible for creating remarkable women. Discover the astounding stories of stateswomen, entrepreneurs, authors, politicians, physicians, saints, educators, and others who forged the Centennial state. Part of this class will include a walking lecture through Golden.

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

CT-9960-19S

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: \$165 (**\$185 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-9712-19S

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: \$200 (**\$220 after February 21st**)

Discover the mysterious mountain lion, evasive bobcat, and reintroduced lynx. Each animal's natural history will unfold through hands-on activities. Play simulation games to understand habitat, territoriality, predator/prey relationships, and population dynamics. Observe a live mountain lion, lynx, and others on a field trip to Cheyenne Mountain Zoo's behind the scenes tour.

CHILDREN'S LITERATURE AND THE SKILLS OF SURVIVAL (K-12)

CT-1804-19S

1 semester credit hour

Date & Time:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$165 (**\$185 after Feb. 28th**)

Practice skills for the classroom that literary figures used to survive: botany (My Side of the Mountain), zoology (Julie of the Wolves), chemistry (Education of Little Tree), first aid (Little Britches), homesteading (Little House), agriculture (Green Book), build elaborate gizmos to cope with the environment (Hunger Games), and more.

BIRDS OF PREY (K-12)

CT-9614-19S

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: \$165 (**\$185 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.

THIRTEEN THOUSAND YEARS OF COLORADO HISTORY (K-12)

CT-1069-19S

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$165 (**\$185 after April 11th**)

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.

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

EcoAdventures

5894 South Meadow Drive

Morrison, CO 80465

303/697-0327, Fax 303/697-0329

Registration/Cancellation/Refund Policy

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

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

Summer 2019 Course Preview

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

CT-1201-19D
4 semester credit hours
Dates: May 30-June 14
Locations: Spain
Instructor: Joyce Webb
Tuition Fee: \$3,670 (includes airfare, lodging, ground transportation, tours, credit)

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

NORTH AMERICAN EAGLES (K-12)

CT-1511-19D
0.5 semester credit hour
Date: June 1
Time: 8:30am-4:30pm
Location: Rocky Mtn. Conservancy, Estes Park
Instructor: Perry Conway
Tuition Fee: \$40 (**payable during workshop**)
Registration Fee: \$80

Discover the evolution, ecology, behavior, anatomy, and population status of both the Bald and the Golden eagle. See a beautiful live female Golden eagle. Travel to a nearby nest to see what kind of habitat is needed for reproduction. Come prepared for short hikes to the best viewing areas.

To register or for more information, contact:

Rachel Balduzzi, RMC
970/586-3262 or
Rachel.balduzzi@rmconservancy.org

EARLY WILDFLOWERS OF RMNP (K-12)

CT-1902-19D
0.5 semester credit hour
Date: June 1
Time: 8:00am-4:30pm
Location: Rocky Mtn. Conservancy, Estes Park
Instructor: Leanne Benton
Tuition Fee: \$40 (**payable during workshop**)
Registration Fee: \$80

Some of the Park's early blooms are the loveliest, from tiny alpine forget-me-nots to colorful Calypso orchids. Search out these beauties as you explore high alpine ridges to lower montane meadows and discover their adaptations for survival and interesting stories behind their beautiful faces. Identification techniques will be honed as you gain confidence using a simple flower key.

To register or for more information, contact:

Rachel Balduzzi, RMC
970/586-3262 or
Rachel.balduzzi@rmconservancy.org

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

CT-1031-19D
1 semester credit hour
Dates: June 1-2
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. 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

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

CT-1402-19D
2 semester credit hours
Dates: June 3-6
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
melaniephe@aol.com
www.coloradorivertrip.com

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

CT-1304-19D
6 semester credit hours
Dates: June 7-21
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
www.coloradorivertrip.com

CUBA: ITS COUNTRY, CULTURE, AND PEOPLE

(K-12)

CT-1718-19D

3 semester credit hours

Dates: June 9-16

Location: Havana & Pinar del Rio, Cuba

Instructor: Elena Sodano, 303/204-8470 or
sodano@mac.com

Tuition Fee: \$135 (**payable during trip**)

Registration Fee: \$3,090 (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. The State Department's new restrictions on travel to Cuba does not impact this educational trip in any manner.

To register:

Eli Arroyo, Your Cuba Travel

910/635-6955 or eli@yourcubatavel.com

ALL ABOUT MINING HYBRID COURSE (K-12)

CT-5700-19D

6 semester credit hours

Dates: June 13-21

Time: 8:00am-mid/late afternoon (except on full-day
field trips)

Location: online, CSM campus, and field trips

Instructors: various speakers

Course Coordinator: Shannon Mann, 720/250-6635

Tuition Fee: \$300

Gain a detailed overview of America's modern mining industry, answering important questions such as: What does the mining industry really do? How does the mining industry function? Why is mining important to America's society? Visit the website for more information on course requirements.

To register or for more information, contact:

CMA Education Foundation, Inc.

303/575-9199, coordinator@allaboutmining.org

www.allaboutmining.org

NORWAY: LAND OF GLACIER-BORN FJORDS

(K-12)

CT-1833-19D

4 semester credit hours

Dates: June 16-24

Locations: Norway

Instructor: Joyce Webb

Tuition Fee: \$4,600 (includes airfare, lodging, ground
transportation, tours, credit)

Start in Oslo with visits to the Viking Museum, Frogner Park, and the Nobel Peace Center. Take the magnificent train ride to Flam to experience a fjord cruise on a finger of Norway's longest and deepest fjord, Sognefjord, before heading to Bergen, a UNESCO sight.

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-0419-19M

4 semester credit hours

Dates: June 25-July 5

Location: Ireland

Instructor: Joyce Webb

Tuition Fee: \$2,075 (includes lodging, ground
transportation, tours, credit)

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

BLACK HILLS: MAMMOTHS, MONUMENTS, AND

WARS (K-12)

CT-1428-19M

2 semester credit hours

Dates: June 28-July 2

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

melaniephe@aol.com

www.coloradorivertrip.com

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

CT-0905-19M

4 semester credit hours

Dates: July 5-13

Location: Ireland

Instructor: Joyce Webb

Tuition Fee: \$2,100 (includes lodging, ground
transportation, tours, credit)

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 Monasterbolce. 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

AUSTRALIA: REEFS AND RAINFORESTS DOWN UNDER (K-12)

CT-0606-19M

6 semester credit hours

Dates: July 5-26

Location: Australia

Instructor: Melanie Phelps

Tuition Fee: \$3,955 (includes lodging, ground transportation, tuition)

Tiptoe through the ancient rainforest in search of the elusive cassowary; snorkel or dive beneath the crystal waters of the Great Barrier Reef; sojourn to the Outback to glimpse the Red Kangaroos; and camp on a secluded coral and mangrove island. Fly to Uluru to hike and explore the outback around Ayer's Rock and the Olga Mountains.

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-0706-19M

4 semester credit hours

Dates: July 13-21

Location: Scotland

Instructor: Joyce Webb

Tuition Fee: \$2,475 (includes lodging, ground transportation, tours, credit)

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

Course Enrollment Form

Please Print

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

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

o E-mail: _____

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 course(s) 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. When the Teacher Enhancement Program is the registration contact fill out the enrollment form 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. Do NOT mail this form to us unless we are listed as the registration contact!

Make checks payable to CSM Office of Continuing Education.

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

CSM Teacher Enhancement Program
 1600 Jackson St., Ste. 190
 Golden, CO 80401
 Phone: (303) 384-2692
<http://te.csmspace.com>