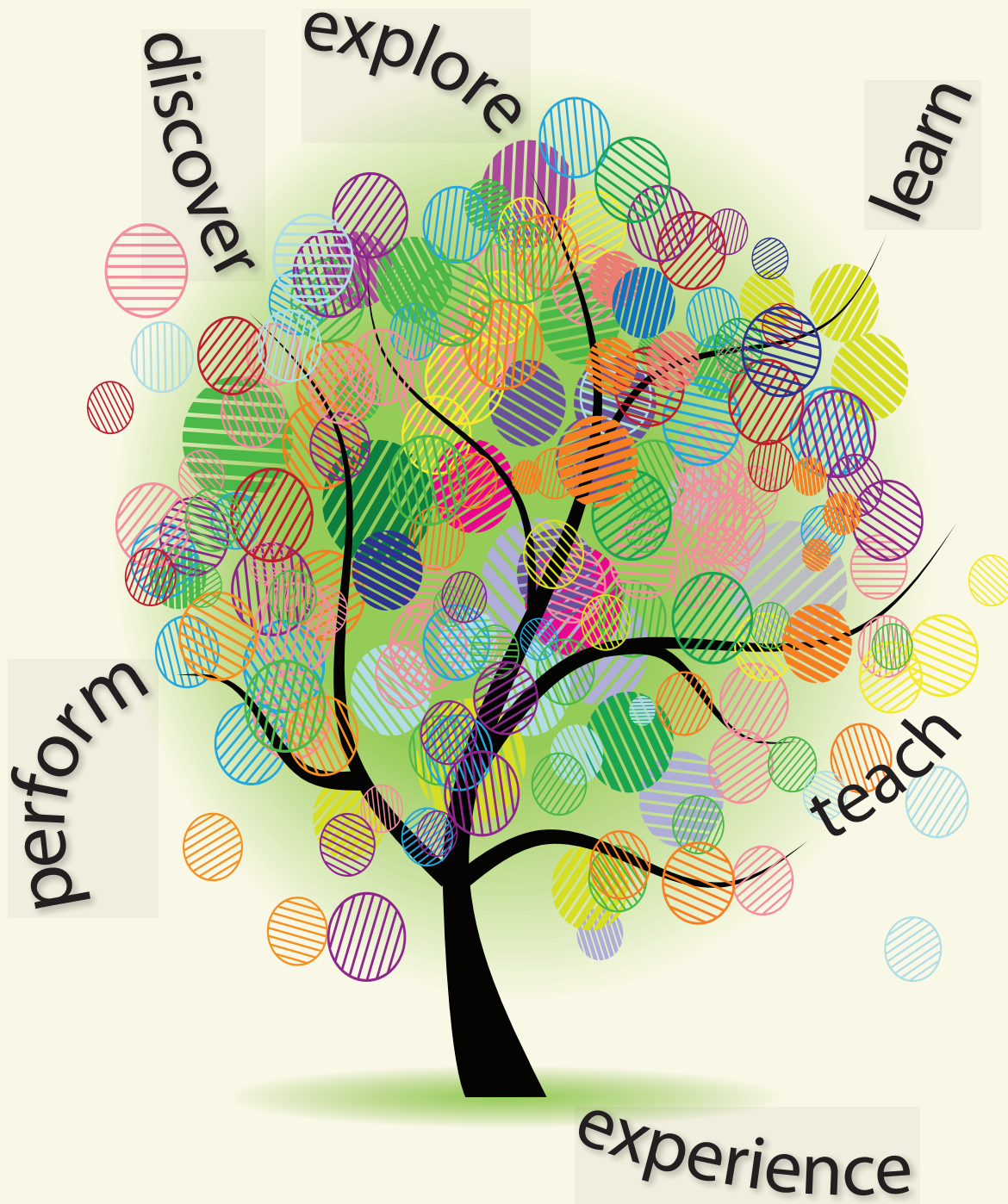


Teacher Enhancement Program for K-12 Educators

AT COLORADO SCHOOL OF MINES



SPRING 2018

COLORADO SCHOOL OF MINES

Teacher Enhancement Program

Spring 2018

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) 279-3855

**To view the most up-to-date course listings or to order an official transcript, 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. 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.

All courses offered in cooperation with the Extended Studies Program of the Colorado Commission on Higher Education

Spring 2018 Course Offerings

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

2018 ADVANCING ENVIRONMENTAL EDUCATION CONFERENCE (PREK-12)

CT-1803-18S
0.5-1 semester credit hour
Dates: March 2-3
Time: 8:00am-7:00pm
Location: UC Denver
Tuition Fee: \$50/\$65 (payable during workshop)
Registration Fee: CAEE 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 18th year. Discover new ideas, and resources and techniques in environmental education for both inside and outside the classroom. This year's theme is empowering Nature focusing on civic engagement. Register online at www.cae.org in December 2017.

To register or for more information, contact:

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

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
melaniephe@aol.com
www.coloradorivertrip.com

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

CT-1213-18S
2 semester credit hours
Date: March 16-April 16
Instructor: H. Jean Bryan
Tuition Fee: \$95 (payable during workshop)
Registration Fee: \$70

Share ideas and learn with other educators as you discover how to have your students observe plant phenology as an educational tool. Focus on collecting scientific data for citizen science projects such as BudBurst and the National Phenology Network.

To register or for more information, contact:

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

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

LONDON: A ROYAL EXPERIENCE (K-12)

CT-1501-18S
4 semester credit hours
Dates: March 24-April 1
Locations: London
Instructor: Joyce Webb
Tuition Fee: \$3,475 (includes airfare, lodging, ground transportation, tours, credit)

Experience the Tower of London, see the crown jewels, hear the chimes of Big Ben, hobnob with the tombstones of Westminster Abbey, and visit the National Gallery with priceless works of art. Travel to Windsor Castle, and spend a day visiting Bath and unlock the mystery of Stonehenge.

To register or for more information, contact:

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

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

CT-1309-18S
0.5 semester credit hour
Date: March 24
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.

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-1801-18S
0.5 semester credit hour
Date: April 14
Time: 8:00am-4:30pm
Location: Rocky Mtn. Conservancy, Estes Park
Instructor: Scott Franklin
Tuition Fee: \$40 (**payable during workshop**)
Registration Fee: \$80

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

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

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

CT-1308-18S
0.5 semester credit hour
Date: April 28
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. 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

100 YEARS OF ENVIRONMENTAL CHANGE (K-12)

CT-1516-18S
0.5 semester credit hour
Date: May 4
Time: 8:30am-4:30pm
Location: Rocky Mtn. Conservancy, Estes Park
Instructor: Ellen Wohl
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

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

LIFE AS AN OWL (K-12)

CT-1802-18S
 0.5 semester credit hour
 Date: May 18
 Time: 2:00-10:00pm
 Location: Rocky Mtn. Conservancy, Estes Park
 Instructor: Kevin Cook
 Tuition Fee: \$40 (**payable during workshop**)
 Registration Fee: \$80

With 14 species, Colorado ranks among the top states for owl diversity. Five owl species live in RMNP, and another five either regularly or erratically wander into the Park. Acquire the knowledge and skills to find owls, find out what attributes make a bird an owl, discover the differences between cultural folklore and biological reality about owls, and exploring different plant communities that support each species.

To register or for more information, contact:

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

LIFE SIGNS: TRACKING THE INVISIBLE (K-12)

CT-1235-18S
 0.5 semester credit hour
 Date: May 25
 Time: 8:30am-4:30pm
 Location: Rocky Mtn. Conservancy, Estes Park
 Instructor: Kevin Cook
 Tuition Fee: \$40 (**payable during workshop**)
 Registration Fee: \$80

A swelling on a twig or a hole in a stem, a stray feather or piece of eggshell, an abandoned nest or a mound of soil: so many different things tattle the comings and goings of secretive creatures that otherwise remain invisible. Learn how to acquire then develop the observation skills necessary to read wildlife signs as if they were a newspaper.

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 below.

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

CT-1804-18S

1 semester credit hour

Date & Time:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$165 (**\$185 after Jan. 4th**)

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.

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

CT-9616-18S

1 semester credit hour

Dates: January 27-28

Time: 9:00am-5:00pm

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$160 (**\$180 after January 11th**)

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-9960-18S

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$160 (**\$180 after Feb. 8th**)

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.

WOMEN OF COLORADO (K-12)

CT-1720-18S

1 semester credit hour

Date & Time:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$160 (**\$180 after Feb. 15th**)

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 Denver and Golden.

BIRDS OF PREY (K-12)

CT-9614-18S

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$165 (**\$185 after March 22nd**)

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.

THE ANCIENT ONES: PRE-HISTORIC NATIVE AMERICANS IN COLORADO (K-12)

CT-1704-18S

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$165 (**\$185 after April 5th**)

Discover the fascinating stories of the first Native Americans in Colorado. Discover how cultures used different strategies to adapt to Colorado's unforgiving landscaper. Try your hand at hunting techniques, hand drills to start fires, archeoastronomy, and ceramics.

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.

Denver Museum of Nature & Science Course Offerings

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

MISSION COGNITION: A HYBRID COURSE ON THE BRAIN (GR. 3-12)

CT-1407-18S

1.5 semester credit hours

Dates: January 6-February 3 (online)

January 6 & 20 (8:00am-3:30pm)

February 3 (9:00am-12:00pm)

Location: online & DMNS

Instructor: Robert Payo

Tuition Fee: \$300

Further your understanding of current research about the mechanics of how humans learn and process information, and demonstrate how these studies can make a difference in the way you teach your students. Use the mysterious organ we know as the brain to explore, imagine, and think critically.

**To register or for more information, contact:
Denver Museum of Nature & Science
303/370-6000 9am-5pm daily
www.dmns.org/teachers/professional-development/courses-and-academies/**

Project WILD - Project Learning Tree - WET

Projects WILD and Learning Tree 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 and Learning Tree 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. Other dates may have been added; call for updated workshop listings.

LIFE IN THE COLD: WINTER ECOLOGY (K-12)

CT-1519-18S

1.0 semester credit hour

Dates & Times:

4:00pm, February 23 through 4:00pm, February 25

Location: YMCA of the Rockies, Estes Park

Tuition Fee: \$55 (**payable during workshop**)

Registration Fee: \$72 (includes lodging and meals)

Feathers, fur, or blubber - how does an animal survive the winter? Explore the strategies plants and animals use to survive winter. Discover the characteristics of snow, and its implications for various species winter survival.

To register or for more information, contact:

Mary McCormac, Colorado Parks & Wildlife

303/291-7328

For updated information:

Project WILD, 303/291-7165

Project Learning Tree, 303/278-8822

www.coloradoplnt.org

www.wildlife.state.co.us/Education

Summer 2018 Course Preview

ALL ABOUT MINING HYBRID COURSE (K-12)

CT-5700-18D
6 semester credit hours
Dates: June 14-22 plus online
Time: 8:00am-mid/late afternoon (except on 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

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
melaniephe@aol.com
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
melaniephe@aol.com
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
melaniephe@aol.com
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
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
melaniephe@aol.com
www.coloradorivertrip.com

SKY ABOVE, WATER BELOW: COLORADO RIVER

I & II (K-12)

CT-1507-18M

2 semester credit hours

Dates & Times:

Lecture: July 12 (12:30pm-8:30pm)

Canoe Trip: July 14-16

Locations: Sommers-Bausch Observatory, Boulder
(lecture)

Instructor: Sanlyn Buxner

Tuition Fee: \$499

Get away from city lights and explore magnificent canyons and deep sky objects on a canoe trip on the Colorado River. Learn to find objects in the sky and discover how scientists study planets, stars, and galaxies. Learn how the Earth helps us make claims about far away worlds, including the possibility of life. Conduct your own research project in the field and discuss how classroom investigations support the Next Generation Science Standards.

To register or for more information, contact:

Centennial Canoe Outfitters, 720/283-0553

brooke@centennialcanoe.com

www.centennialcanoe.com

COLORADFO PLATEAU: A MIRROR OF MARS

(K-12)

CT-1800-18M

3 semester credit hours

Dates & Times:

Lecture: July 23 (9:00am-5:00pm)

Canoe Trip: July 25-29

Locations: The lecture will be held at CSM. The trip will begin and end in Moab, UT.

Instructor: Ed Adams

Tuition Fee: \$798

Field trips to Mars are still quite difficult, but travel to the Colorado Plateau is easy. As observations of the Martian surface become more robust structures look tantalizingly familiar. It is possible that the desert of the Colorado Plateau has experienced a similar climate and geologic process. Cane down the Green River in central Utah looking at areas that seem to be analogous to what we are seeing on Mars.

To register or for more information, contact:

Brooke Ranney, Centennial Canoe Outfitters

720/283-0553 or brooke@centennialcanoe.com

www.centennialcanoe.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

www.coloradorivertrip.com

Course Enrollment Form

Please Print

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

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

E-mail: _____

Fax; fax number: () _____

Mail ***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) 279-3855
<http://te.csmspace.com>