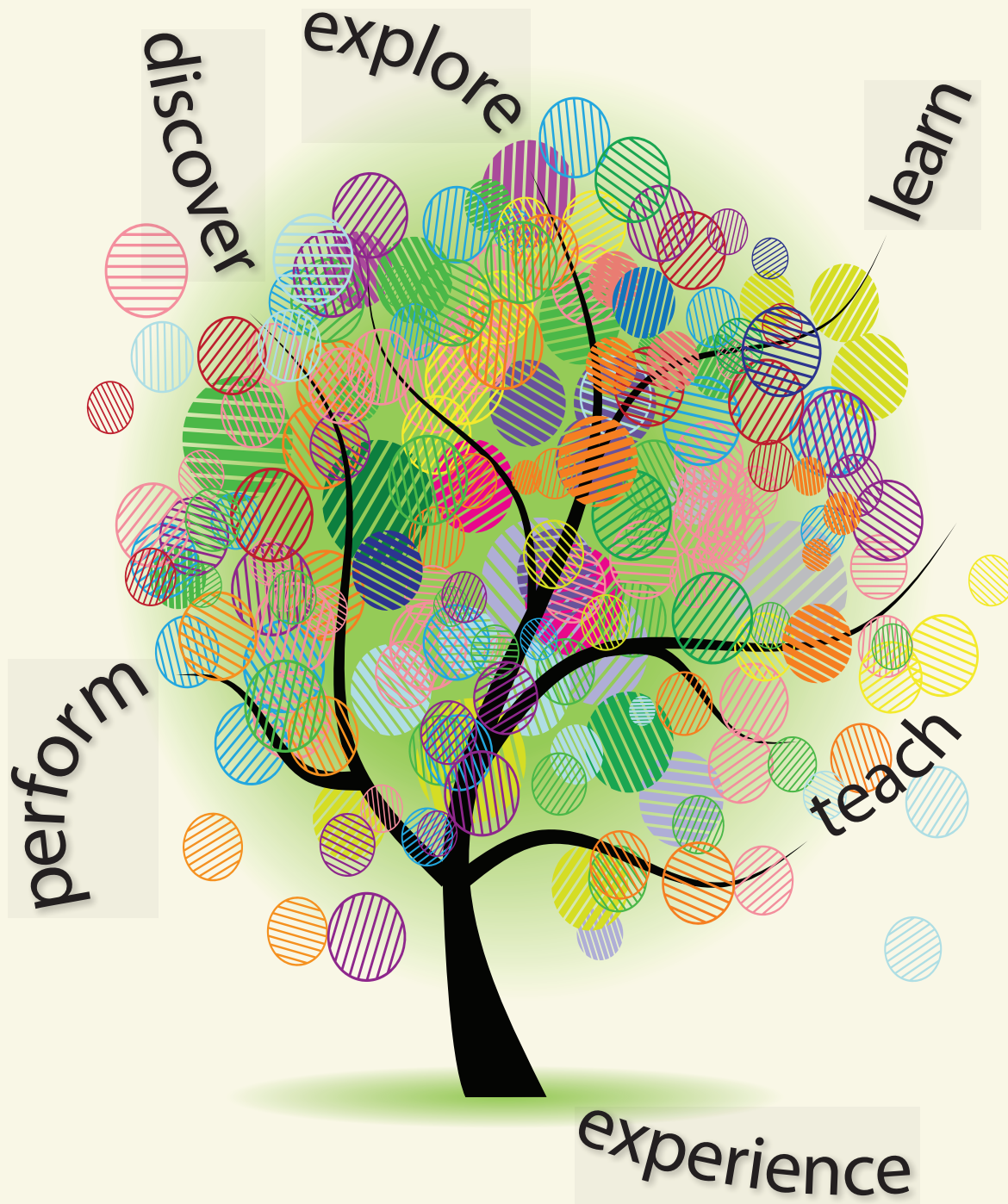


# Teacher Enhancement Program for K-12 Educators

AT COLORADO SCHOOL OF MINES



SPRING 2020

<http://te.csmspace.com>

# COLORADO SCHOOL OF MINES

## Teacher Enhancement Program

### Spring 2020

#### 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](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.**

## Spring 2020 Course Offerings

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

CT-1213-20S  
2 semester credit hours  
Date: January 24-February 23  
Instructors: Carolyn Mohr, Jessa Finch  
Tuition Fee: \$95 (**payable during workshop**)  
Registration Fee: \$70

Discover how studying the life cycles of plants (phenology) reveal some consequences of climate change. This facilitated online course includes tips and activities to help you incorporate an observation-rich citizen science project (Budburst) into lesson plans. You can contribute to national databases, analyze data, and see how the world is changing. More information and to register at [https://www.chicagobotanic.org/education/citizen\\_science\\_academy](https://www.chicagobotanic.org/education/citizen_science_academy)

**To register or for more information, contact:**

Jessa Finch, Chicago Botanic Gardens  
847/835-8347 or [jfinch@chicagobotanic.org](mailto:jfinch@chicagobotanic.org)

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

CT-1538-20S  
4 semester credit hours  
Dates: February 15-23  
Location: Baja Peninsula, Mexico  
Instructor: Melanie Phelps  
Tuition Fee: \$2,675 (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](mailto:melaniephe@aol.com)  
[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

### SCIENCE WRITING: PATHWAYS TO DISCOVERY (GR. 9-12)

CT-1166-20S  
0.5 semester credit hour  
Date: February 22  
Time: 8:30am-5:30pm  
Location: Western Museum of Mining & Industry, Colorado Springs  
Instructor: Steven Veatch  
Tuition Fee: \$40 (**payable during workshop**)  
Registration Fee: \$90 (includes snacks and lunch)

Explore effective teaching strategies that promote the use of science writing in your classroom. Discover how to use science writing as pathways to discovery and achievement for students. Topics include the format of a scientific paper, writing research papers, advanced research methods, writing techniques and tips, and the use of illustrations and images.

**To register or for more information, contact:**

Western Museum of Mining & Industry  
719/488-0880

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

CT-1502-20S  
1 semester credit hour  
Dates: March 14-15  
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](mailto:melaniephe@aol.com)  
[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

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

CT-1309-20S  
0.5 semester credit hour  
Date: March 21  
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](mailto:Rachel.balduzzi@rmconservancy.org)

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

CT-1112-20S  
4 semester credit hours  
Dates: March 21-29  
Location: Belize, Central America  
Instructor: Melanie Phelps  
Tuition Fee: \$2,375 (does not include airfare)

Submerge yourself in the colorful world of the Belize coral reefs. Explore the coral 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. Experience Belize, brimming with life and mysteries.

**To register or for more information, contact:**

Melanie Phelps, 719/252-1789  
[melaniephe@aol.com](mailto:melaniephe@aol.com)  
[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

## 2020 ADVANCING ENVIRONMENTAL EDUCATION CONFERENCE (PREK-12)

CT-2003-20S  
0.5-1 semester credit hour  
Dates: April 3-4  
Times: varies, see website  
Location: Snow Mountain Ranch, Granby  
Tuition Fee: \$50/\$65 (**payable during workshop**)  
Registration Fee: CAEE member \$100 one day, \$150 two days

The 20<sup>th</sup> annual Colorado Advancing Environmental Education Conference (also known as Teaching Outside the Box) offers engaging speakers and sessions, networking, Discover new ideas, and resources and techniques in environmental education for both inside and outside the classroom. This year's theme is "Regeneration-Inspiring all generations to build resilient, healthy communities through collaborative actions." Register online at [www.caee.org](http://www.caee.org) through 3/31/20.

### To register or for more information, contact:

Nell Nelson, CAEE  
[info@caee.org](mailto:info@caee.org) or 303/273-9527

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

CT-1303-20S  
1 semester credit hour  
Dates: April 11-12  
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](mailto:melaniephe@aol.com)  
[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

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

CT-1308-20S  
0.5 semester credit hour  
Date: May 1  
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](mailto:Rachel.balduzzi@rmconservancy.org)

## PICKETWIRE DINOSAUR TRACKS BY MOUNTAIN BIKE (K-12)

CT-0350-20S  
1 semester credit hour  
Dates: May 2-3  
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](mailto:melaniephe@aol.com)  
[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

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

CT-1905-20S  
0.5 semester credit hour  
Date: May 8  
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](mailto:Rachel.balduzzi@rmconservancy.org)

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

CT-1801-20S  
0.5 semester credit hour  
Date: May 9  
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:**

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970/586-3262 or  
[Rachel.balduzzi@rmconservancy.org](mailto:Rachel.balduzzi@rmconservancy.org)

### **ENDANGERED SPECIES OF THE ROCKIES (K-12)**

CT-1900-20S  
0.5 semester credit hour  
Date: May 15  
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:**

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970/586-3262 or  
[Rachel.balduzzi@rmconservancy.org](mailto:Rachel.balduzzi@rmconservancy.org)

### **100 YEARS OF ENVIRONMENTAL CHANGE (K-12)**

CT-1516-20S  
0.5 semester credit hour  
Date: May 22  
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:**

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970/586-3262 or  
[Rachel.balduzzi@rmconservancy.org](mailto:Rachel.balduzzi@rmconservancy.org)

### **LIFE AS AN OWL (K-12)**

CT-1904-20S  
0.5 semester credit hour  
Date: May 22  
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](mailto:Rachel.balduzzi@rmconservancy.org)

### **THE SURPRISING WORLD OF LICHENS (K-12)**

CT-1901-20S

0.5 semester credit hour

Date: May 30

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

### **BIRDING RMNP BY EAR (K-12)**

CT-1911-20S

0.5 semester credit hour

Date: May 31

Time: 7:30am-3:30pm

Location: Rocky Mtn. Conservancy, Estes Park

Instructor: Nathan Pieplow

Tuition Fee: \$40 (**payable during workshop**)

Registration Fee: \$80

Birds are far often heard than seen, but learning to identify them by ear can be a challenge. Visit several habitats to hear and practice identifying as many birds as possible. The classroom session will reinforce and extend the learning in the field. Learn a standard vocabulary for describing sounds and visualize sound using spectrograms, so that your eyes can help train your ears.

**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.**

### **NATIVE AMERICAN GAMES AND TOYS (K-8)**

CT-0104-20S

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$170 (**\$190 after Dec. 26<sup>th</sup>**)

Explore the games and toys of various Native American people in this hands-on history class. Discover that many of the toys and games also had other benefits, such as modeling of adult roles and physical conditioning. Make several toys and games to take back to your classroom. Great for indoor recess activities!

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

CT-9960-20S

1 semester credit hour

Dates & Times:

February 22 (9:00am-5:00pm)

February 23 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$165 (**\$185 after Feb. 6<sup>th</sup>**)

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. Visit a rendezvous re-enactment on Saturday.

### **WOMEN OF COLORADO (K-12)**

CT-1720-20S

1 semester credit hour

Date & Time:

March 14 (9:00am-5:00pm)

March 15 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$165 (**\$185 after Feb. 27<sup>th</sup>**)

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.

### **BIRDS OF PREY (K-12)**

CT-9614-20S

1 semester credit hour

Dates & Times:

April 4 (12:00pm-7:30pm)

April 5 (8:30am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$165 (**\$185 after March 19<sup>th</sup>**)

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.

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

CT-1804-20S

1 semester credit hour

Date & Time:

April 18 (9:00am-5:00pm)

April 19 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$165 (**\$185 after April 2<sup>nd</sup>**)

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.

**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 Botanic Gardens Course Offerings

**Note: Register for DBG courses through the Gardens. See box below.**

### THE GROWING CLASSROOM (PREK-12)

CT-1221-20S  
0.5 semester credit hour  
Date: February 8  
Time: 9:00am-5:00pm  
Location: Denver Botanic Gardens  
Instructor: Kirsten Bell  
Tuition Fee: \$40 (**payable during workshop**)  
Registration Fee: \$55 DBG member, \$65 non-member

Have you always wanted to grow plants in your classroom but don't have a green thumb? Learn techniques to successfully grow plants indoors along with activities for your students to learn about plants and planting.

### ROCKY MOUNTAIN HORTICULTURE I (K-12)

CT-1613-20S  
0.5 semester credit hour  
Date: March 3, 5, 10, 12  
Time: 6:00pm-8:30pm  
Location: Denver Botanic Gardens  
Instructor: Kirsten Bell  
Tuition Fee: \$40 (**payable during workshop**)  
Registration Fee: \$135 DBG member, \$161 non-member

Learn the specifics necessary to grow plants successfully in the Rocky Mountain region. Soil preparation, plant choice and location, planting techniques and year-round maintenance specific to Colorado will be covered. Review plant growth, fertilizers, microclimates and more.

### BUILDING A SCHOOLYARD GARDEN (K-12)

CT-0812-20S  
0.5 semester credit hour  
Date: March 14  
Time: 9:00am-5:00pm  
Location: Denver Botanic Gardens  
Instructor: Kirsten Bell  
Tuition Fee: \$40 (**payable during workshop**)  
Registration Fee: \$55 DBG member; \$65 non-member

Learn how to create a simple vegetable garden in your schoolyard either in the ground or in containers. Get tips on gardening, plants suitable for your school year season, and ideas on how to incorporate a school yard garden curriculum into your reading, writing, math, science, and social studies time.

### ROCKY MOUNTAIN HORTICULTURE II (K-12)

CT-1614-20S  
0.5 semester credit hour  
Date: March 17, 19, 24, 26  
Time: 6:00pm-8:30pm  
Location: Denver Botanic Gardens  
Instructor: Kirsten Bell  
Tuition Fee: \$40 (**payable during workshop**)  
Registration Fee: \$135 DBG member, \$161 non-member

Obtain an introduction to general information on plant management. Topics will include the identification and control of lawn and garden weeds, diseases and insects, and integrated pest management.

### TEACHING PLANT SCIENCE THROUGH MATH & LITERACY (K-6)

CT-1906-20S  
0.5 semester credit hour  
Date: March 28  
Time: 9:00am-5:00pm  
Location: Denver Botanic Gardens  
Instructor: Kirsten Bell  
Tuition Fee: \$40 (**payable during workshop**)  
Registration Fee: \$55 DBG member, \$65 non-member

Plants can be used to teach math, literature, writing, and social studies; this class will teach you how to do it! Explore a variety of hands-on learning opportunities using garden and classroom plants to teach content requirements in a variety of subjects.

**To register, contact:**

**DBG Resource Center**

**720/865-3500**

[info@botanicgardens.org](mailto:info@botanicgardens.org)

<https://catalog.botanicgardens.org/Default.aspx?tagid=13>



## Summer 2020 Course Preview

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

CT-1031-20D

1 semester credit hour

Dates: June 3-4

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](mailto:melaniephe@aol.com)

[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

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

CT-1402-20D

2 semester credit hours

Dates: June 5-8

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](mailto:melaniephe@aol.com)

[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

### CUBA: COUNTRY, CULTURE, & PEOPLE (K-12)

CT-1718-20D

3 semester credit hours

Dates: June 7-14

Location: Havana & Pinar del Rio, Cuba

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

**To register:**

Eli Arroyo, Your Cuba Travel

910/635-6955 or [eli@yourcubatravel.com](mailto:eli@yourcubatravel.com)

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

CT-1428-20D

2 semester credit hours

Dates: June 11-15

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](mailto:melaniephe@aol.com)

[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

### ECUADOR: AMAZON RAINFOREST & GALAPAGOS ISLANDS (K-12)

CT-2000-20M

6 semester credit hours

Dates: June 22-July 5

Location: Ecuador

Instructor: Melanie Phelps

Tuition Fee: \$7,635 (includes lodging, ground  
transportation, entrance fees, tuition and most meals;  
does not include airfare to Quito)

Soar over the Andes Mountains, then take a motorized canoe into the Amazon Rainforest with local guides to an enchanted wildlife reserve deep within the forest. Explore the World Heritage Center of Quito. Hike, bike, kayak and snorkel your way around Galapagos Islands, home of diverse finches, tortoises, penguins, and hundreds of other species.

**To register or for more information, contact:**

Melanie Phelps, 719/252-1789

[melaniephe@aol.com](mailto:melaniephe@aol.com)

[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

**PERU: MACHU PICCHU & IMPERIAL CUSCO  
(K-12)**

CT-2001-20M  
2 semester credit hours  
Dates: July 5-9  
Location: meet at Cusco, Peru  
Instructor: Melanie Phelps  
Tuition Fee: \$3,555 (includes lodging, ground transportation, entrance fees, tuition and some meals; flight to Peru from Ecuador included)

Explore the lost lands of the Inca in Peru as you wander through Machu Picchu, perhaps the most magical ancient archeological ruin in the world. Tour Cusco City, with its temples and royal houses, then investigate the Inca Sacred Valley in the high Andes. Climb the Intipunku Mountain, the entrance to Machu Picchu from the Inca Trail and gaze on Huayna Picchu Mountain, and the Sacred Temple of the Moon.

**To register or for more information, contact:**

Melanie Phelps, 719/252-1789  
[melaniephe@aol.com](mailto:melaniephe@aol.com)  
[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

**BONAIRE: CORAL REEF BIODIVERSITY  
ENCHANTMENT (K-12)**

CT-2002-20M  
4 semester credit hours  
Dates: July 18-26  
Location: Ecuador  
Instructor: Melanie Phelps  
Tuition Fee: \$2,175 (includes lodging, ground transportation, entrance fees, tuition; does not include airfare)

Coral reefs are among the world's most beautiful, diverse, and most endangered ecosystems. Although they only occupy 1% of the land, over 25% of marine species live there, yet 90% of reefs may be irreparably damaged by 2050. Visit, dive, snorkel, love and study this magical ecosystem before time runs out. Bonaire boasts some of the healthiest coral reefs on Earth.

**To register or for more information, contact:**

Melanie Phelps, 719/252-1789  
[melaniephe@aol.com](mailto:melaniephe@aol.com)  
[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

**TALES & TRAILS OF COLORADO GHOST MINES  
(K-12)**

CT-1165-20M  
1 semester credit hour  
Dates: August 1-2  
Locations: Fairplay & Alma  
Instructor: Melanie Phelps  
Tuition Fee: \$175

Capture gold fever as you explore mines, mills, and ghost towns near Fairplay. Peer through broken window frames and trek twisted rails in Leavick. Creep softly through Alma's past looking for the legendary Silver Heels. Let the timberline mines and the 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](mailto:melaniephe@aol.com)  
[www.coloradorivertrip.com](http://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:** \_\_\_\_\_

**o 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) 384-2692  
<http://te.csmspace.com>