

Teacher Enhancement Program for K-12 Educators

AT THE COLORADO SCHOOL OF MINES



SUMMER 2020

<http://te.csmspace.com>

COLORADO SCHOOL OF MINES

Teacher Enhancement Program

Summer 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
Green Center, Ste. 221
Golden, CO 80401-0028
(303) 384-2692

Courses are added to our website frequently, to view the most up-to-date course listings or to order an official transcript, visit our home page: 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.

Summer 2020 Course Offerings

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

www.coloradorivertrip.com

PRINCIPLES AND FOUNDATIONS FOR ENVIRONMENTAL EDUCATION ONLINE (K-12)

CT-1216-20M

2 semester credit hours

Dates: June 3-August 11

Instructor: Katie Navin

Tuition Fee: \$95 (payable during workshop)

Registration Fee: \$135 CAEE members, \$175 non-members

Explore the history and goals of environmental education; develop an understanding of the professional roles and instructional methods of environmental educators; and interact with other educators online. Become eligible to submit your work for CAEE's environmental educator certification program for a discount. Register at www.cae.org.

To register or for more information, contact:

Katie Navin, CAEE

303/273-9527, director@cae.org

BEYOND THE CLASSROOM: AQUATIC ECOLOGY RESEARCH & ENVIRONMENTAL ISSUES (GR. 4-12)

CT-1742-20D

1 semester credit hour

Dates & Times:

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

June 5 (7:30am-4:00pm)

Location: Keystone Science School

Instructors: Brent Beadles, Carrie Scheick

Course Coordinator: Christina Wheeler

Tuition Fee: \$55 (payable during workshop)

Registration Fee: \$150 (includes meals, housing, materials)

Receive all the tools necessary to facilitate a complete unit on environmental issues within a traditional classroom. The lessons from the workshop can form a stand-alone unit or supplement a Keystone Science School overnight field trip. Our unbiased framework allows you to explore challenging topics, such as climate science and how it relates to ecology, while learning about all sides and perspectives of an issue. We will be using the topic of

water in the West to explore environmental issues but the lessons will be adaptable to any local, regional, or global issue. Gain ideas and techniques for engaging your local community while learning how to get your students out of the classroom and experiencing the chosen issue first-hand. Curriculum can be adapted for younger students.

To register or for more information, contact:

Christina Wheeler, Keystone Science School

970/368-4082

cwheeler@keystonescienceschool.org

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

www.coloradorivertrip.com

CUBA: ITS COUNTRY, CULTURE, AND 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

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

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
www.coloradorivertrip.com

ALL ABOUT MINING HYBRID COURSE (K-12)

CT-5700-20D

6 semester credit hours

Dates:

online

June 18-20 (in class portion)

June 22-26 (field trip portion)

Locations: 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 and how does it impact the environment? How does the mining industry function? Why is mining important to America's society? Learn how our modern mining industry is discovering and producing minerals, energy, and a variety of other materials we need for our global society while also working to protect the environment. 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

REVOLUTIONIZING READING (K-8)

CT-2022

1.5 semester credit hours

Dates:

Session I: June 22-24

Session II: July 13-15

Time: 8:00am-4:00pm

Location: Hampton Inn, Ft. Collins

Instructor: Bri Schupp

Tuition Fee: \$85 (**payable during workshop**)

Registration Fee: \$350 (includes course materials and book)

Gain an understanding of the pedagogy recommended by the National Reading Panel and current legislation to effectively teach reading. Implement the Orton Gillingham approach as it relates to phonemic awareness, phonics, vocabulary, fluency, and comprehension. Understand, recognize, and remediate common reading deficits including dyslexia

To register or for more information, contact:

Bri Schupp, Reading Rev
970/217-1085 or bri@readingrev.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
www.coloradorivertrip.com

BLACK CANYON OF THE GUNNISON: SECRET GEM OF THE WEST (K-12)

CT-0557-20D

1 semester credit hour

Dates & Times:

June 23 (8:00am-5:00pm)

June 24 (7:30am-3:30pm)

Locations: Montrose to Delta

Instructor: Tonya MacKendrick

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

Registration Fee: \$90 (meals, lodging, and transportation on your own)

Trace the importance of the Gunnison River as it carved the spectacular views and canyons of the Black Canyon of the Gunnison. Explore the living history of Fort Uncompahgre, followed by a breathtaking guided boat tour at Curcanti National Recreation Area on Morrow Point Lake. Class includes a 1 1/2 mile round trip hike to the boat dock and includes 200 steps.

To register or for more information, contact:

Tonya MacKendrick, 970/216-2326
Tmackendrick530@gmail.com
www.wcoloradohistoricadventures.weebly.com

USING CITIZEN SCIENCE DATA IN THE CLASSROOM ONLINE (GR. 6-12)

CT-1620-20M
2 semester credit hours
Dates: June 26-July 26
Instructor: Carolyn Mohr
Tuition Fee: \$95 (**payable during workshop**)
Registration Fee: \$70

New to integrating data collection, manipulation, and display as part of your citizen science related instructional activities? This course provides a good starting place. This course assumes a basic familiarity with the concept of citizen science and direct experience with, or participation in, at least one citizen science project. Projects highlighted in this course include Budburst, eBird, FrogWatch, Picture Post, and CoCoRaHS.

To register or for more information, contact:

Carolyn Mohr, Chicago Botanic Garden
847/835-6875 or cmohr@chicagobotanic.org

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
www.coloradorivertrip.com

FROM FIELD SCIENCE TO CLASSROOM SCIENCE (K-8)

CT-2018-20M
2.5 semester credit hours
Dates: July 13-17
Time: 9:00am-5:00pm
Location: Rocky Mtn. Biological Lab, Crested Butte
Tuition Fee: \$125 (**payable during workshop**)
Registration Fee: \$500 (includes lunch each day)

Join scientists studying mountain ecosystems, pollinators and wildflowers, small mammals, climate science, and more at the Rocky Mountain Biological Laboratory in Gothic, Colorado (north of Crested Butte). Experience authentic field research while also obtaining differentiated data sets and NGSS aligned resources to launch environmental, phenomena-based investigations in your own classroom. Limited scholarships funds available, contact youthscience@rmbll.org to apply.

To register or for more information, contact:

Ann Colbert, RMBL
970/901-1395 or youthscience@rmbll.org

PLASTIC PLANET (GR. 1-12)

CT-2019-20M
0.5 semester credit hour
Date: July 14
Time: 9:00am-5:00pm
Location: Downtown Aquarium, Denver
Course Coordinator: Colleen Shipley, 303/561-4565
Tuition Fee: \$40 (**payable during workshop**)
Registration Fee: \$75 (includes materials, parking, admission & snacks)

A lot is happening in the world regarding plastic and its effects on animals and their habitats. Learn more about how plastics became a large problem in our world. How do different plastics and pollution affect habitats and animals? What are actions that are being taken to stop, eliminate, and change the course of this issue? Learn and participate in activities, tour the aquarium, and receive a USB of curriculum to use in your classroom. Registrations close 2 weeks prior to the start date.

To register or for more information, contact:

Downtown Aquarium Education & Sales
303/561-4444

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
www.coloradorivertrip.com

WASTEWATER AND AQUATIC BIOLOGY (K-12)

CT-1082-20M
0.5 semester credit hour
Date: July 22
Time: 8:00am-5:00pm
Location: Metro Wastewater Reclamation District, Denver
Instructors: Steve Lundt, Jordan Parman
Course Coordinator: Kelley Merritt
Tuition Fee: no charge (you must pre-register)

Receive an overview of the treatment process at Metro Wastewater Reclamation District and highlight the environmental benefits to the South Platte River. Learn industry efforts to preserve, protect, and improve aquatic environments while protecting public health. Tour the Robert W. Hite Treatment Facility and the Metro District Laboratory.

To register or for more information, contact:

Kelley Merritt, Metro Wastewater Rec District
303/286-3455 or kmerritt@mwrdd.dst.co.us

GEOLOGY & HISTORY OF THE CRIPPLE CREEK MINING DISTRICT (K-12)

CT-1232-20M
0.5 semester credit hour
Date: July 25
Time: 8:00am-5:00pm
Location: Cripple Creek Parks & Rec.
Instructor: Steven Veatch, 719/748-5010
Tuition Fee: \$40 (**payable during workshop**)
Registration Fee: \$45

The Cripple Creek Mining District is one of the most interesting geologic regions in the country. Enjoy lively discussions as you discover the District's remarkable modern and historic mining operations. Learn about the geology and rich mining history of the area then tour current mining operations of the Cripple Creek and Victor Gold Mining Company. Transportation to field sites provided by bus with lunch included.

To register or for more information, contact:
Cripple Creek Parks and Recreation
719/689-3514

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
www.coloradorivertrip.com

YOUTH COMMUNITY CIVIC ACTION PROCESS (GR. 6-12)

CT-2021-20M
1 semester credit hour
Dates: August 3-4
Time: 8:00am-4:30pm
Location: Third Street Center, Carbondale
Instructor: Sarah Johnson
Tuition Fee: \$55 (**payable during workshop**)
Registration Fee: \$85; \$105 (after 7/20/20)

Learn from the Youth Water Leadership Program a process for creating student-centered authentic place-based learning opportunities. Through interactive activities and group discussions, explore nationally proven tools (Earth Force, Roots & Shoots, BEETLES, National Geographic Education, Environmental Issues Forums) that provide processes for how to get started with student lead community action projects. Dive into the process with a real-world issue you are concerned about. Get access to free tools to use to incorporate youth voice, student-driven inquiry, democratic decision-making, and place-based authentic problem-solving into classrooms preparing students for life-long environmental stewardship, civic engagement, and collaborative action.

To register or for more information, contact:
Sarah Johnson, Wild Rose Education
970/510-0697 or sarah@wildroseeducation.com

NPS EARTH SCIENCE FOR TEACHERS (K-12)

CT-1830-20M
0.5 semester credit hour
Date:
Session I: August 10
Session II: August 12
Time: 9:00am-4:30pm
Location: Black Canyon of the Gunnison National Park
Instructors: Alison Mims, Laura Tomcek
Tuition Fee: \$40 (**payable during workshop**)
Registration Fee: none (you must pre-register)

Gain background knowledge of the landscape at Black Canyon of the Gunnison National Park and around your school. Collaborate with other educators to adapt background knowledge to your classroom. Examine NGSS standards (new CDE standards). Walk away with a binder of resources to use in your classroom.

To register or for more information, contact:
Laura Tomcek, NPS
970/641-2337 x203 or laura_tomcek@nps.gov

THE FOSSIL RECORD: AN INTRODUCTION TO PALEONTOLOGY (GR. 6-12)

CT-0697-20M
0.5 semester credit hour
Date: August 22
Time: 8:30am-5:30pm
Location: Cripple Creek Parks & Recreation
Instructor: Steven Veatch, 719/748-5010
Tuition Fee: \$40 (**payable during workshop**)
Registration Fee: \$45 (includes field trip transportation & lunch)

This field-based class provides a basic introduction to paleontology, the study of ancient life on earth and the fossils that remain. Receive training in paleontological field methods, fossil preparation, documentation, and specimen curation. There are field trips to the Florissant Fossil Beds National Monument and a local fossil quarry for a hands-on experience of collecting fossils in the field. Keep the fossils you collect at the commercial quarry.

To register or for more information, contact:
Cripple Creek Parks & Recreation
719/689-3514

Be sure to check out the varied course offerings offered by the Rocky Mountain Conservancy in Estes Park this summer. For more information visit:

<https://rmconservancy.org>



EcoAdventure Course Offerings

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

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

CT-1704-20D

1 semester credit hour

Dates & Times:

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

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

Location: EcoAdventures, Morrison

Instructor: Trey Corkern

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

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 (atl-atls and rabbit sticks), hand drills to start fires, archeoastronomy, and ceramics.

SWEET WITH A STING: THE NATURAL HISTORY OF HONEYBEES (K-12)

CT-0519-20D

1 semester credit hour

Dates: June 13-14

Times: 9:00am-5:00pm

Location: EcoAdventures, Morrison

Instructor: Pam Batton

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

Peer into a glass hive and learn about the natural history of honeybees and their relatives. Examine the life cycle and jobs of a hive bee. Watch field bees in action as they pollinate flowers and do the "waggle dance." Take a field trip to a bee yard to learn about a beekeeper's daily activities. Optional: Put on a bee suit and open a real hive.

PUTTING THE COLOR BACK INTO COLORADO – A HISTORY OF MINORITIES IN THE ROCKIES (K-12)

CT-0122-20M

1 semester credit hour

Dates & Times:

June 30 (9:00am-5:00pm)

July 1 (9:00am-4:00pm)

Location: EcoAdventures, Morrison

Instructor: Trey Corkern

Tuition Fee: \$165 (**\$185 after June 12th**)

Examine the other histories that made Colorado: female doctors, African businessmen, Mexican buffalo hunters, Shoshone trappers, geriatric labor leaders, and Comanche traders. Make butter, throw a lariat, and try your hand at tin-smithing.

THE UTE - A NATIVE AMERICAN WAY OF LIFE IN THE ROCKIES (K-12)

CT-95106-20M

1 semester credit hour

Dates & Times:

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

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

Location: EcoAdventures, Morrison

Instructor: Pam Batton

Tuition Fee: \$165 (**\$185 after July 3rd**)

Discover the history of the people of the shining mountains - Ute. Get a campsite up and running; learn the basics of ancient skills used in everyday life; try your hand at fire building, cooking, sewing, beading, twining, tanning and flint knapping.

EXPLORING THE PONDEROSA PINE FOREST (K-12)

CT-0105-20M

1 semester credit hour

Dates & Times:

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

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

Location: EcoAdventures, Morrison

Instructor: Pam Batton

Tuition Fee: \$165 (**\$185 after July 3rd**)

Discover the ponderosa pine ecosystem by immersing yourself in the rich flora and diverse wildlife of the ponderosa pine forest. The porcupine and Abert's squirrel are two residents you will learn about. Explore the natural and cultural history of this massive pine's role in logging and homesteading in Colorado.

COLORADO'S UNCIVIL WARS: SAND CREEK, JULESBURG, & THE WAR BETWEEN THE STATES (K-12)

CT-1719-20F

1 semester credit hour

Dates & Times:

September 12 (9:00am-5:00pm)

September 13 (9:00am-4:00pm)

Location: LaJunta, CO

Instructor: Trey Corkern

Tuition Fee: \$165 (**\$185 after Aug. 27th**)

The Civil War and the Indian Wars collided in Colorado from 1861 to 1865, and Coloradans are still dealing with the consequences. Explore the daily life of the Colorado 1st Infantry and the "Bloodless" 3rd Colorado Cavalry, and visit the sites of the Sand Creek massacre, Fort Lyons, and Bent's Old Fort.

ELK BUGLING (K-12)

CT-95105-20F

1 semester credit hour

Dates: September 26-27

Time: 12:00pm-7:30pm

Location: EcoAdventures, Morrison

Instructor: Pam Batton

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

Observe and listen to the bull elk bugling during the mating season. Explore adaptations, behavior, and human/elk interactions through activities and observation. By the end of class you'll be thinking like an elk and understand the important ecological role of this large herbivore.

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

CT-1101-20F

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$165 (**\$185 after September 17th**)

Discover how we built a nation, from before the arrival of the Pilgrims at Plymouth to the fledgling colony's victory over the British Empire. Try your hand at pickling, weaving, blacksmithing, and more. Field trip on Saturday to a Colonial reenactment.

RIVER OTTER...THEY'RE HERE IN COLORADO! (K-12)

CT-1923-20F

1 semester credit hour

Dates & Times:

November 7 (8:00am-5:00pm)

November 8 (10:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$180 (**\$200 after Oct. 22nd**)

Indulge your fascination with otters as you learn about the biology of this active and amusing animal. Learn about otter re-introduction to Colorado and how to find them in the wild. Visit the Denver Aquarium for a curator's otter exhibit talk.

EARLY EXPLORERS OF THE ROCKY MOUNTAINS (K-12)

CT-0518-20F

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$165 (**\$185 after Oct. 29th**)

Discover the history of the Rocky Mountains in the company of soldiers, trappers, priests, and spies. Use botany, zoology, cartography, journaling, geometry, and celestial navigation to keep up with the likes of Zebulon Pike, Father Escalante, and Kit Carson. Like the original explorers, go home with field specimens.

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.

Projects WILD ~ WET ~ Learning Tree Course Offerings

WILD ABOUT WINGS (K-12)

CT-2020-20D
2 semester credit hours
Dates: June 16-19
Time: varies, generally 8am-5pm
Locations: Salida, Buena Vista, Leadville
Tuition Fee: \$95 (**payable during workshop**)
Registration Fee: \$65; \$75 after 6/1/20

This course, offered by Colorado Parks & Wildlife and Upper Arkansas TEN, will focus on winged animals and flying technology in natural resources. The course will be held in the Upper Arkansas Valley and showcase environmental and hands-on activities for you to use with your students in the field and classroom.

For more information or to register, contact:

Tracy Predmore, CPW
719/227-5207 or tracy.predmore@state.co.us

PROJECT WET (K-12)

CT-9629-20M
0.5 semester credit hour
Date: July 15
Time: 9:00am-5:00pm
Location: Downtown Aquarium, Denver
Tuition Fee \$40 (**payable during workshop**)
Registration Fee: \$75 (includes admission, parking, curriculum guide, snacks)

Project WET is a collection of innovative and water-related K-12 activities that are interdisciplinary, hands-on, easy to use, and fun. These activities, taken from the updated Project WET Curriculum & Activity Guide, may focus on large and small group learning and laboratory investigations. Practice teaching WET activities to fellow participants. Must register 2 weeks prior to the start date.

To register or for more information, contact:

Downtown Aquarium Education & Group Sales
303/561-4444

AQUATIC PROJECT WILD (K-12)

CT-9684-20M
0.5 semester credit hour
Date: July 16
Time: 9:00am-5:00pm
Location: Downtown Aquarium, Denver
Tuition Fee: \$40 (**payable during each workshop**)
Registration Fee: \$50 (includes admission, parking, and curriculum guides)

Receive activities that emphasize an interdisciplinary approach to teaching about aquatic life. Using hands-on activities that create awareness, appreciation, understanding, skills, and commitment you and your students will learn to address environmental and aquatic topics within the framework of your existing curriculum. Must register two weeks prior to the start date.

To register or for more information, contact:

Downtown Aquarium Education & Group Sales
303/561-4444

Fall 2020 Course Preview

WESTERN RMNP BUTTERFLIES (K-12)

CT-1426-20F

0.5 semester credit hour

Date: September 4

Time: 8:30am-5:00pm

Location: Trail River Ranch in RMNP near Grand Lake

Instructors: Paul Opler, Evi Buckner-Opler

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

Registration Fee: \$80

Butterflies are easily observed insects which fly in every life zone of RMNP. Learn butterfly biology, behavior, and diversity. Visit several different habitats on the west side of the Park to search for late summer species. Learn to identify these species and discuss their life histories and ecology, host-plant associations, and conservation concerns, including the impact of loss of lodgepole pine stands to bark beetles. Observe butterflies through binoculars, digital photography, and net-and-release.

To register or for more information, contact:

Rachel Balduzzi, Rocky Mtn. Conservancy

970/586-3262

Rachel.balduzzi@rmconservancy.org

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
 Green Center, Ste. 221
 924 16th St.
 Golden, CO 80401
 Phone: (303) 384-2692
<http://te.csmspace.com>