Teacher Enhancement Program for K-12 Educators
AT THE COLORADO SCHOOL OF MINES

Http://te.csmspace.com
COLORADO SCHOOL OF MINES
Teacher Enhancement Program
Fall 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 checks/credit card information should be mailed or faxed to:

Teacher Enhancement Program
Colorado School of Mines
1600 Jackson St., Suite 190
Golden, CO 80401
(303) 384-2695 FAX
(303) 384-2692

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. Graduate-level semester credit offered for each course is applicable for license renewal in the State of Colorado and is generally accepted elsewhere. The credit is not applicable toward a degree at CSM. Request for Transcript of Record forms can be found at www.mines.edu/Outreach/Cont_Ed/tep15.html.

All policies and requirements stated above are program-wide and not at the discretion of individual instructors. Enrollment in any course offered for CSM credit implies your agreement to comply with program policies and requirements.

All courses offered in cooperation with the Extended Studies Program of the Colorado Commission on Higher Education
PERSEVERING PIKA: SECRETS OF ALPINE SURVIVAL (K-12)
CT-1534-18F
0.5 semester credit hour
Date: September 1
Time: 8:30am-5:00pm
Location: Rocky Mtn. Conservancy, Estes Park
Instructor: Chris Ray
Tuition Fee: $40 (payable during workshop)
Registration Fee: $80

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

To register or for more information, contact:
Rachel Balduzzi, Rocky Mtn. Conservancy
970/586-3262 or Rachel.balduzzi@rmconservancy.org

TEACHING CONTROVERSIAL SCIENCE TOPICS (GR. 9-12)
CT-1831-18F
0.5 semester credit hour
Date: September 8
Time: 8:00am-5:00pm
Location: Univ. of Colorado, Boulder
Course Coordinator: Hannah Holland-Moritz
Tuition Fee: $40 (payable during workshop)
Registration: pre-registration required

Enhance your education of controversial topics such as evolution and climate change in Colorado high schools by providing you with information and classroom activities based on real research. Scientists and educators from the University of Colorado and beyond will lead all modules.

To register or for more information, contact:
H. Jean Bryan, 847/835-6945 or jbryan@chicagobotanic.org
EcoAdventure Course Offerings

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

**BACK IN BLACK - RAVENS, CROWS, AND MAGPIES (K-12)**
CT-0463-18F
1 semester credit hour
Dates & Times:
- September 15 (12:00-7:00pm)
- September 16 (7:30am-3:30pm)
Location: EcoAdventures, Morrison
Instructor: Pam Batton
Tuition Fee: $160 ($180 after Aug. 30th)

Ravens, crows, magpies, and jays form the Corvid family. They are intelligent, social, curious, and one of the most adaptable bird species on earth. Their success is noted in cultural folklore and history. Discover the natural and cultural history of these remarkable birds through hands-on activities and outdoor treks.

**BEYOND THE SPIRIT OF 1776: LIFE IN COLONIAL AMERICA (K-12)**
CT-1101-18F
1 semester credit hour
Dates & Times:
- October 6 (9:00am-5:00pm)
- October 7 (9:00am-4:00pm)
Location: CSM campus, Golden
Instructor: Trey Corkern
Tuition Fee: $160 ($180 after September 20th)

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.

**COLORADO’S UNCIVIL WARS: SAND CREEK, JULESBURG, & THE WAR BETWEEN THE STATES (K-12)**
CT-1719-18F
1 semester credit hour
Dates & Times:
- October 20 (9:00am-5:00pm)
- October 21 (9:00am-4:00pm)
Location: LaJunta, CO
Instructor: Trey Corkern
Tuition Fee: $165 ($185 after Oct. 4th)

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.

**JUST BUTTING HEADS? BIGHORN SHEEP & MOUNTAIN GOATS (K-12)**
CT-0757-18F
1 semester credit hour
Dates & Times:
- November 3 (9:00am-5:00pm)
- November 4 (9:00am-4:00pm)
Location: CSM campus, Golden
Instructor: Pam Batton
Tuition Fee: $160 ($180 after October 18th)

Discover why head butting is common among bighorn sheep and rare (but serious) among mountain goats. Learn about unique adaptations for survival in a rugged habitat. Hike into bighorn country as the mating season begins to observe their behavior. Learn why the mountain goat truly is a beast the color of winter.

**PUTTING THE COLOR BACK INTO COLORADO – A HISTORY OF MINORITIES IN THE ROCKIES (K-12)**
CT-0122-18F
1 semester credit hour
Dates & Times:
- November 10 (9:00am-5:00pm)
- November 11 (9:00am-4:00pm)
Location: CSM campus, Golden
Instructor: Trey Corkern
Tuition Fee: $160 ($180 after October 25th)

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.

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

Pam Batton
EcoAdventures
5894 South Meadow Drive
Morrison, CO 80465
303/697-0327
Fax 303/697-0329
Pamsecoadventures.com

Registration/Cancellation/Refund Policy

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

If you notify us of a cancellation before the registration deadline, we will refund your tuition less a $25.00 cancellation fee. If you cancel after the registration deadline, we will refund your tuition less a cancellation fee of $35.00. If you cancel 48 hours before a class begins, we will refund half of your tuition. If you cancel 24 hours before a class begins or on the day of class or are a no-show to class, no refund will be offered. These fees also apply to class transfers.
WHALE SHARKS, HUMPBACKS & GRAY WHALES (K-12)
CT-1538-19S
4 semester credit hours
Dates: February 16-24
Location: Baja Peninsula, Mexico
Instructor: Melanie Phelps
Tuition Fee: $2,575 (does not include airfare)

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

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

SANDHILL CRANES, SAND DUNES & HOT SPRINGS (K-12)
CT-1502-19S
1 semester credit hour
Dates: March 2-3
Location: Alamosa
Instructor: Melanie Phelps
Tuition Fee: $190 (includes entrance fees, credit)

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

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

COSTA RICA: TROPICAL RAINFOREST LEGEND (K-12)
CT-1701-19S
4 semester credit hours
Dates: March 23-31
Location: Costa Rica, Central America
Instructor: Melanie Phelps
Tuition Fee: $2,475 (includes lodging, ground transportation, tours, credit)

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

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

MUSEUMS OF PARIS (K-12)
CT-04132-19S
4 semester credit hours
Dates: March 23-31
Locations: Paris
Instructor: Joyce Webb
Tuition Fee: $3,670 (includes airfare, lodging, ground transportation, tours, credit)

Visit the Louvre, Orsay, Rodin, and Picasso Museums plus Versailles. Climb Notre-Dame, cruise the Seine, zip up the Eiffel Tower, and saunter down the Avenue des Champs Elysees to the Arc de Triomphe. Join us and help capture the romance and joie de vivre that Paris exudes.

To register or for more information, contact:
Joyce Webb, 719/229-5482
joycewebb@ymail.com
www.coloradorivertrip.com

COLORADO HISTORY BY TRAIN: DENVER TO GLENWOOD (K-12)
CT-1303-19S
1 semester credit hour
Dates: April 13-14
Location: Denver to Glenwood Springs
Instructor: Melanie Phelps
Tuition Fee: $490 (includes train fare, lodging, tours, credit)

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

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

PICTETWIRE DINOSAUR TRACKS BY MOUNTAIN BIKE (K-12)
CT-0350-19S
1 semester credit hour
Dates: May 4-5
Time: 8:00am-5:00pm
Location: LaJunta
Instructor: Melanie Phelps
Tuition Fee: $155 (includes credit)

Mountain bike 13-miles round trip to see a fossilized Jurassic beach containing over 1300 dinosaur tracks, some big enough to sit in. This important site showed scientists that dinosaurs were herding animals. Tour Old Bent’s Fort and view stage coach ruts on the Old Stagecoach Trail. Learn Colorado history from the Jurassic to the Dust Bowl.

To register or for more information, contact:
Melanie Phelps, 719/252-1789
melaniephe@aol.com
www.coloradorivertrip.com
Summer 2019 Course Preview

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

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

Experience Spain from the art and architecture of Madrid to Sevilla’s Alcazar, Christopher Columbus’ tomb, and the romance of Flamenco dancers. Visit the Rock of Gibraltar and take a day trip to the mysterious Tangiers on Africa’s Moroccan coast. Wander Granada’s grand Alhambra while learning of Spain’s tangled history.

To register or for more information, contact:  
Joyce Webb, 719/229-5482  
joycewebb@ymail.com  
www.coloradorivertrip.com

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

CT-1031-19D  
1 semester credit hour  
Dates: June 1-2  
Location: meet in Pueblo; drive to NM  
Instructor: Melanie Phelps  
Tuition Fee: $155

Experience the volcanoes of New Mexico and the Bandelier ruins of the ancient Pueblo Indians 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-1402-19D  
2 semester credit hours  
Dates: June 3-6  
Location: meet in Santa Fe, NM  
Instructor: Melanie Phelps  
Tuition Fee: $335 (includes entrance fees, credit)

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

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

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

CT-1304-19D  
6 semester credit hours  
Dates: June 7-21  
Location: Alaska  
Instructor: Melanie Phelps  
Tuition Fee: $5,705 (includes some airfare, ferry, tours, lodging, ground transportation, credit)

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

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

**NORWAY: LAND OF GLACIER-BORN FJORDS (K-12)**

CT-1833-19D  
4 semester credit hours  
Dates: June 16-24  
Locations: Norway  
Instructor: Joyce Webb  
Tuition Fee: $4,600 (includes airfare, lodging, ground transportation, tours, credit)

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

To register or for more information, contact:  
Joyce Webb, 719/229-5482  
joycewebb@ymail.com  
www.coloradorivertrip.com

**IRELAND: HAUNTED BY HISTORY AND RICH IN LEGENDS (K-12)**

CT-0419-19M  
4 semester credit hours  
Dates: June 25-July 5  
Location: Ireland  
Instructor: Joyce Webb  
Tuition Fee: $2,075 (includes lodging, ground transportation, tours, credit)

Experience the unpretentious simplicity of Ireland. Tour the southwestern Emerald Isle from castles to peat bogs, and explore the famous Aran Islands, the Burren, and the Gaelic-speaking Dingle Peninsula. Kiss the Blarney Stone and climb the Rock of Cashel.

To register or for more information, contact:  
Joyce Webb, 719/229-5482  
joycewebb@ymail.com  
www.coloradorivertrip.com
BLACK HILLS: MAMMOTHS, MONUMENTS, AND WARS (K-12)
CT-1428-19M
2 semester credit hours
Dates: June 28-July 2
Location: meet in Scotts Bluff, NE
Instructor: Melanie Phelps
Tuition Fee: $420 (includes entrance fees and tuition)

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

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

IRELAND II: DAWNING OF A NEW DAY (K-12)
CT-0905-19M
4 semester credit hours
Dates: July 5-13
Location: Ireland
Instructor: Joyce Webb
Tuition Fee: $2,100 (includes lodging, ground transportation, tours, credit)

Tour Dublin, Belfast, and the east coast of Ireland. Discover the past as you gaze upon the Book of Kells, explore the tomb of Newgrange, and wander through the 6th century monastery of Monasterboice. Visit Trim Castle and explore the volcanic columns of the Giant’s Causeway. The past and present become blended into another Irish adventure.

To register or for more information, contact:
Joyce Webb, 719/229-5482
joycewebb@ymail.com
www.coloradorivertrip.com

AUSTRALIA: REEVES AND RAINFORESTS DOWN UNDER (K-12)
CT-0606-19M
6 semester credit hours
Dates: July 5-26
Location: Australia
Instructor: Melanie Phelps
Tuition Fee: $3,955 (includes lodging, ground transportation, tuition)

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

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

SCOTLAND: THE HIGHLANDS OF GLADES AND LOCHS (K-12)
CT-0706-19M
4 semester credit hours
Dates: July 13-21
Location: Scotland
Instructor: Joyce Webb
Tuition Fee: $2,475 (includes lodging, ground transportation, tours, credit)

Journey along mossy mountains, salty isles, and bottomless lochs. Taste haggis, hear bagpipes, and feel the winds of history blowing through the glens. Go time tripping through stone castles, and savor the pristine atmosphere of the Hebrides Islands. Wander with us and scan Loch Ness for legendary monsters.

To register or for more information, contact:
Joyce Webb, 719/229-5482
joycewebb@ymail.com
www.coloradorivertrip.com
Course Enrollment Form

Please Print

Full Name: ____________________________________________________________

Mailing Address: ________________________________________________________

City: __________________________ State: ___________ Zip: ___________

Social Security Number*: __________________________ Date of Birth: ___________

Telephone: (school) __________________________ (home) _______________________

School: __________________________ Grade Level: _______________________

Email: __________________________

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

ο E-mail: __________________________

ο Fax; fax number: (____) __________________________

οMail

*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 class(es) for which you are registering

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<th>Course #</th>
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Please follow carefully the specific registration instructions which accompany each course listing in this catalog. Many, but not all, listings will direct you to fill out the form above and mail along with the tuition amount to the Colorado School of Mines Teacher Enhancement Program. Please send a separate check for each course, and for each participant.

Make checks payable to CSM Office of Continuing Education unless otherwise noted.

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

CSM Teacher Enhancement Program
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Golden, CO 80401
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Phone: (303) 384-2692
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