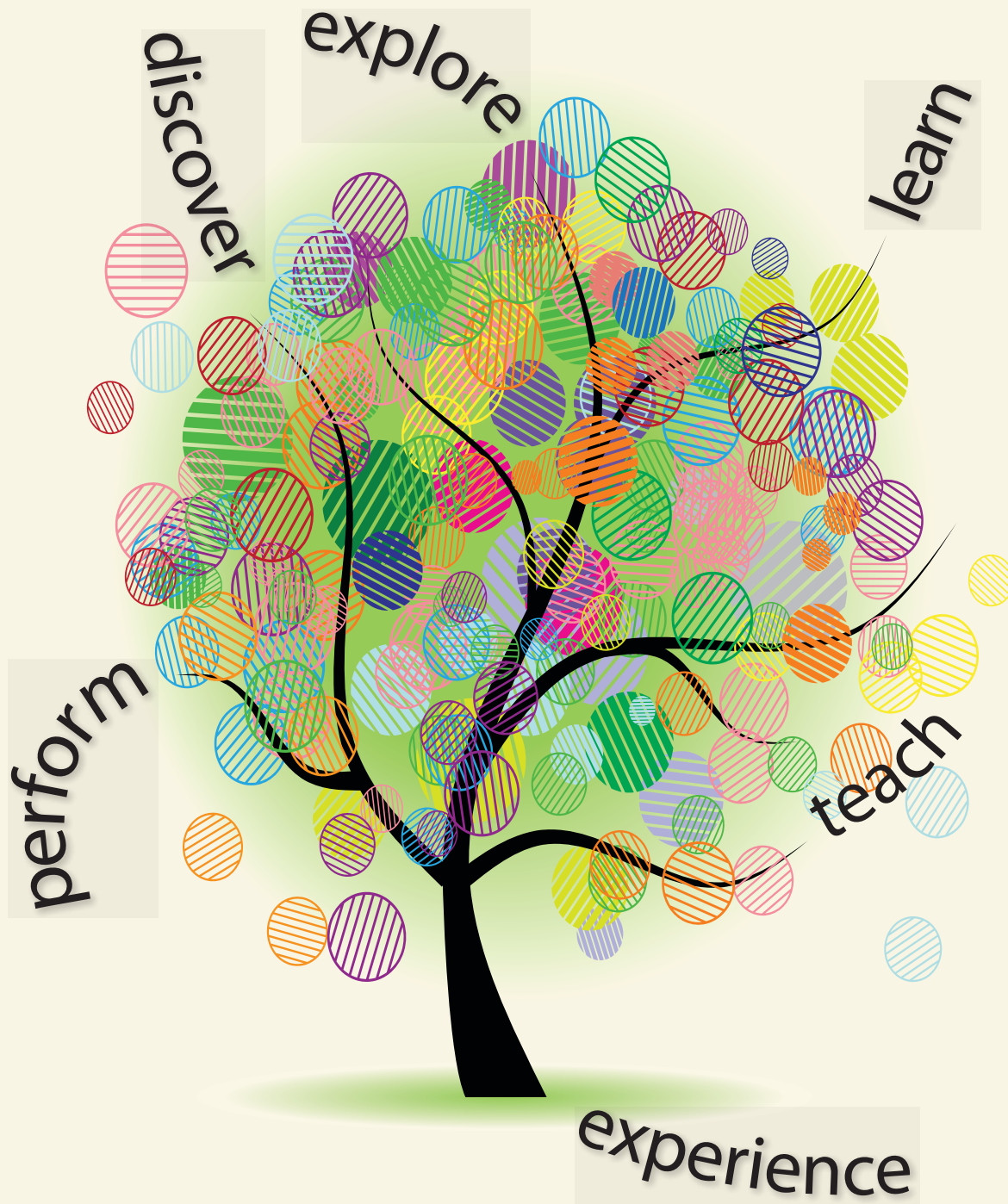


Teacher Enhancement Program for K-12 Educators

AT COLORADO SCHOOL OF MINES



SPRING 2015

COLORADO SCHOOL OF MINES

Teacher Enhancement Program

Spring 2015

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
Office of Special Programs & Continuing Education
Colorado School of Mines
Golden, CO 80401-0028
(303) 279-3855

To view the most current course listings or to order an official TE 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 2015 Course Offerings

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

CT-1213-15S

2 semester credit hours

Dates:

Session I: February 3-March 6

Session II: April 7-May 8

Instructor: Dennis Ward

Tuition Fee: \$90 (**payable during workshop**)

Registration Fee: \$35

Obtain detailed information about Project BudBurst (a plant-based citizen science program). Learn how to select your plants and make observations, get suggestions for structuring your classroom involvement, receive activities to engage your students in making observations and analyzing data, as well as forming a community with other educators.

To register or for more information, contact:

Dennis Ward, NEON

720/746-4924 or dward@neoninc.org

USING PROJECT BUDBURST DATA ONLINE (K-12)

CT-1274-15S

2 semester credit hours

Dates:

Session I: February 3-March 6

Session II: April 7-May 8

Instructor: Dennis Ward

Tuition Fee: \$90 (**payable during workshop**)

Registration Fee: \$35

Integrate Project BudBurst data in your classroom. Discover an exciting new set of online data visualization tools developed by the National Geographic FieldScope program. Cover plant adaptations to a changing climate, and links between Project BudBurst data and other broadscale data sets.

To register or for more information, contact:

Dennis Ward, NEON

720/746-4924 or dward@neoninc.org

INTRODUCTION TO CITIZEN SCIENCE ONLINE (K-12)

CT-1430-15S

2 semester credit hours

Dates:

Session I: February 3-March 6

Session II: April 7-May 8

Instructor: Dennis Ward

Tuition Fee: \$90 (**payable during workshop**)

Registration Fee: \$35

Receive an overview of citizen science, highlighting several existing programs that are targeted towards educators. Explore each of these programs, including how to participate, suggestions for structuring your involvement, education activities to engage your students, as well as forming a community with other educators.

To register or for more information, contact:

Dennis Ward, NEON

720/746-4924 or dward@neoninc.org

OCEAN LITERACY (PREK-12)

CT-0710-15S

0.5 semester credit hour

Date: February 14

Time: 9:00am-5:00pm

Locations: Downtown Aquarium, Denver

Course Coordinator: Colleen Shipley

Tuition Fee: \$35 (**payable during workshop**)

Registration Fee: \$75

Even though Colorado is not near an ocean, we are tied to it in many ways. Ocean literacy is an understanding of the ocean's influence on you, and your influence on the ocean. Learn the 7 essential principals of ocean literacy through interactive lessons and visiting the Aquarium residents.

To register or for more information, contact:

Downtown Aquarium Sales & Service Center

303/561-4444

GHOST TOWNS BY CROSS-COUNTRY SKI (K-12)

CT-0301-15S

1 semester credit hour

Dates: February 14-15

Time: 8:00am-5:00pm

Location: Leadville

Instructor: Melanie Phelps

Tuition Fee: \$140

Cross-country ski back in time to the days of the Colorado gold and silver rush. Relive the extravagance and demise of Baby Doe and Horace Tabor, and tour the Mining Museum and Healy House. Listen to the snow blowing softly among the ruins of Oro City and California Gulch. Cross-country skiing or snowshoeing experience not required.

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-1502-15S

1 semester credit hour

Dates: March 7-8

Location: Alamosa

Instructor: Melanie Phelps

Tuition Fee: \$140

View flocks of majestic Sandhill Cranes in the wetlands near Alamosa. Hear their bugling call and watch their graceful mating dance. Photograph and learn behaviors and mating rituals of hundreds of wetland birds. See swooping birds of prey, and search for the extremely endangered Whooping Crane. Explore the Sand Dunes, a Colorado Alligator farm, and soak in a soothing hot spring.

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-1501-15S

4 semester credit hours

Dates: March 21-29

Locations: London

Instructor: Joyce Webb

Tuition Fee: \$2,970 (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 the mystery of Stonehenge.

To register or for more information, contact:

Joyce Webb, 719/229-5482

joycewebb@ymail.com

www.coloradorivertrip.com

HAWAII: VOLCANOES & CORAL REEFS (K-12)

CT-0906-15S

4 semester credit hours

Dates: March 21-29

Location: Big Island of Hawaii

Instructor: Melanie Phelps

Tuition Fee: \$2,470 (includes ground transportation, lodging, entrance fees, credit)

Explore Hawaii's Big Island – the newest land on earth. Tiptoe across Kilauea's active volcano caldera; step gently through aa and pahoehoe lava flows; and gaze upon molten lava flowing to the sea. Submerge into the shimmering brilliance of coral reef life to conduct biodiversity and environmental impact research.

To register or for more information, contact:

Melanie Phelps, 719/252-1789

melaniephe@aol.com

www.coloradorivertrip.com

ADVANCING ENVIRONMENTAL EDUCATION CONFERENCE (PREK-12)

CT-1504-15S

0.5-1 semester credit hour

Dates: March 27-28

Time: 8:00am-5:00pm

Location: Tivoli Student Union, Denver

Tuition Fee: \$45-\$60 (**payable during workshop**)

Registration Fee: varies; check website www.cae.org

This action-packed environmental conference (also known as Teaching Outside the Box) offers engaging speakers and sessions, networking, and discovering new ideas, resources and techniques on a variety of topics for both inside and outside the classroom. This year's theme focuses on connections between research, practices and collaborations that offer tangible takeaways for participants.

To register or for more information, contact:

Malinda Mochizukuki, CAEE

outreach@cae.org or 303/273-9527

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

CT-1309-15S

0.5 semester credit hour

Date: March 28

Time: 8:00am-4:00pm

Location: RMC Field Institute, Estes Park

Instructor: Jared Gricoskie

Tuition Fee: \$35 (**payable during workshop**)

Registration Fee: \$70

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

Rachel.balduzzi@rmconservancy.org

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

CT-1308-15S

0.5 semester credit hour

Date: April 23

Time: 8:00am-4:30pm

Location: RMC Field Institute, Estes Park

Instructor: Jeff Maugans

Tuition Fee: \$35 (**payable during workshop**)

Registration Fee: \$70

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, RMNA

970/586-3262

Rachel.balduzzi@rmconservancy.org

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

CT-1303-15S

1 semester credit hour

Dates: April 25-26

Location: Denver to Glenwood Springs

Instructor: Melanie Phelps

Tuition Fee: \$470 (includes train fare, lodging, tours, credit)

Ride 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

KNOW YOUR RANGE PLANTS (K-12)

CT-1405-15S
1.0 semester credit hour
Dates: May 2-3
Time: 8:00am-5:00pm
Locations: Plains Conservation Center & Rocky Mtn.
Arsenal
Instructor: Michael Johnson
Tuition Fee: \$50 (**payable during workshop**)
Registration Fee: \$140

Learn the names of native range plants that grow in your school parking lot or on the playground, then teach your students how to identify them. Learn about plant taxonomy, and how to identify common plants. Discover how to press and annotate plants, and how to conduct a soil texture analysis.

To register or for more information, contact:

Michael Johnson
720/548-0560 or montanamike8@gmail.com

PICKETWIRE DINOSAUR TRACKS BY MOUNTAIN BIKE (K-12)

CT-0350-15S
1 semester credit hour
Dates: May 9-10
Time: 8:00am-5:00pm
Location: LaJunta
Instructor: Melanie Phelps
Tuition Fee: \$140

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 SIGNS: TRACKING THE INVISIBLE (K-12)

CT-1235-15S
0.5 semester credit hour
Date: May 15
Time: 8:30am-4:30pm
Location: RMC Field Institute, Estes Park
Instructor: Kevin Cook
Tuition Fee: \$35 (**payable during workshop**)
Registration Fee: \$70

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, RMNA
970/586-3262
Rachel.balduzzi@rmconservancy.org

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

CT-1031-15S
1 semester credit hour
Dates: May 30-31
Location: meet in Pueblo; drive to NM
Instructor: Melanie Phelps
Tuition Fee: \$140

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

EcoAdventure Course Offerings

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

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

CT-0700-15S

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$150 (**\$170 after January 8th**)

In a land too cold for polar fleece, imagine life as a hunter/gatherer. You depend on nature for warmth, food, and shelter. Learn about Yup'ik's lifeways, traditions, and culture to see if you could live on the arctic tundra. Try to harvest food with bolas, spears, and atlatl; build a miniature kayak; make a storyknife; and try on traditional clothing.

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

CT-9616-15S

1 semester credit hour

Dates & Times:

February 7 (9:00am-5:00pm)

February 8 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$150 (**\$170 after January 22nd**)

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-9960-15S

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$150 (**\$170 after Feb. 5th**)

Learn how to separate the historical fur trader from the fictitious mountain man. Trace a remarkable history from 1805 to 1850 with an emphasis on economics, geography, cultural change, and experimental archaeology. Learn how to make moccasin patterns, sample historical foods, and make a fire with flint and steel.

WILD FELINES OF COLORADO (K-12)

CT-9712-15S

1 semester credit hour

Dates & Times:

March 14 (8:00am-5:00pm)

March 15 (9:00am-3:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$165 (**\$185 after February 26th**)

Discover the mysterious mountain lion, evasive bobcat, and reintroduced lynx. Explore each animal's natural history through hands-on activities, and an opportunity to observe a live mountain lion, bobcat, and others on a field trip to a feline refuge. Play simulation games to understand habitat, territoriality, predator/prey relationships, and population dynamics.

BIRDS OF PREY (K-12)

CT-9614-15S

1 semester credit hour

Dates & Times:

April 18 (12:00pm-7:30pm)

April 19 (8:30am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$150 (**\$170 after April 2nd**)

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.

To register, 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.

Project WILD - Project Learning Tree - Project 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.

FIRE ECOLOGY INSTITUTE FOR EDUCATORS (GR. 4-12)

CT-0720

3 semester credit hours

Workshop I:

Dates: 8am, June 8 through 3pm, June 12

Location: Ft. Lewis College, Durango

Workshop II:

Dates: 10am, July 6 through 4pm, July 11

Location: The Nature Place, Florissant

Tuition Fee: \$130 (**payable during institute**)

Registration Fee: \$250 (includes meals, lodging & materials)

Wildfire is scientific, fascinating, relevant, emotional, and natural. Explore and receive fire activities, kits, trunks, experiments, videos, cds, posters, and more. Experience field and research-based activities while learning about fire, insects, and drought from fire and natural resource professionals. Visit and study fire sites and mitigation efforts, and experience inquiry experiments.

To register or for more information, contact:

Shawna Crocker

303/278-8822, www.coloradoplt.org

For updated information:

Project WILD, 303/291-7165

Project Learning Tree, 303/278-8822

www.coloradoplt.org

www.wildlife.state.co.us/Education

Summer 2015 Course Preview

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

CT-1402-15D
2 semester credit hours
Dates: June 1-4
Location: meet in Santa Fe, NM
Instructor: Melanie Phelps
Tuition Fee: \$300 (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

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

CT-1201-15D
4 semester credit hours
Dates: June 6-16
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

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

CT-1428-15D
2 semester credit hours
Dates: June 9-13
Location: meet in Scotts Bluff, NE
Instructor: Melanie Phelps
Tuition Fee: \$440 (includes entrance fees, credit)

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

ICELAND: LAND OF FIRE AND ICE (K-12)

CT-1506-15D
4.5 semester credit hours
Dates: June 16-26
Location: Iceland
Instructor: Melanie Phelps
Tuition Fee: \$3,600 (includes lodging, ground transportation, tours, credit)

Explore the Viking city of Reykjavik. Discover the geology of plate tectonics; snorkel and hike where you can touch both the European and the North American Plates; then strap on your crampons and hike an active glacier. Soak in volcano heated hot springs, and walk among fumeroles, mudpots, steam vents, and geysers. Delve into lava tubes, study plant succession, and see world famous volcanoes of Katla, Hekla, and Eyjafjallajokull.

To register or for more information, contact:

Melanie Phelps, 719/252-1789
melaniephe@aol.com
www.coloradorivertrip.com

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

CT-0419-15D
4 semester credit hours
Dates: June 16-25
Location: Ireland
Instructor: Joyce Webb
Tuition Fee: \$2,970 (includes airfare, lodging, ground transportation, tours, credit)

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

To register or for more information, contact:

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

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

CT-0905-15M
4 semester credit hours
Dates: June 24-July 2
Location: Ireland
Instructor: Joyce Webb
Tuition Fee: \$2,970 (includes airfare, 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 Glendolough. 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

THE GRAND CANYON OF THE COLORADO – THE ULTIMATE RIVER EXPEDITION (K-12)

CT-0428-15M
3.5 semester credit hours
Dates: July 2-8
Location: Grand Canyon
Instructor: Melanie Phelps
Tuition Fee: \$3,060 (includes meals, credit)

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

SCOTLAND: THE HIGHLANDS OF GLADES AND LOCHS (K-12)

CT-0706-15M
4 semester credit hours
Dates: July 2-11
Location: Scotland
Instructor: Joyce Webb
Tuition Fee: \$3,670 (includes airfare, 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

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

CT-1304-15M
6 semester credit hours
Dates: July 10-24
Location: Alaska
Instructor: Melanie Phelps
Tuition Fee: \$5,350 (includes AK airfare, ferry, 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 based upon air and ferry fares.

To register or for more information, contact:

Melanie Phelps, 719/252-1789
melaniephe@aol.com
www.coloradorivertrip.com

MIDDLE/HIGH SCHOOL IPS PHYSICAL SCIENCE (GR. 7-10)

CT-0786/CT-0845/CT-1039-15M
2 semester credit hours (each week)
Dates:
July 12-17 (chapters 1-6)
July 19-24 (chapters 7-11)
July 19-24 (chapters 12-16)
Time: 8:30am-4:00pm
Location: CSM Campus, Golden
Course Coordinator: Bob Stair
Tuition Fee: \$380 (per week)

Cover 6, 11 or all 16 chapters of the 9th edition of the IPS text to enhance your knowledge and classroom performance in physical science. Experience the use of student experiments while developing an understanding of basic concepts and laboratory skills.

To obtain an application, contact:

Bob Stair, SCI
303/988-5041 or rstair@sci-ips.com

SKY ABOVE, WATER BELOW: COLORADO RIVER (K-12)

CT-1507-15M
2 semester credit hours
Dates & Times:
Lecture: July 16 (12:30pm-8:30pm)
Canoe Trip: July 18-20
Locations: Sommers-Bausch Observatory, Boulder (lecture)
Instructor: Sanlyn Buxner
Tuition Fee: \$499 (includes meals, credit)

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
info@centennialcanoe.com
www.centennialcanoe.com

HAWAIIAN ISLANDS ADVENTURE (GR. 6-12)

CT-1508-15M
3 semester credit hours
Dates: July 23-August 6
Location: Hawaiian Islands
Instructors: Mike Sipes, Marilyn Schmidt
Tuition Fee: \$130 (**payable during trip**)
Registration Fee: \$4,000 (includes airfare from Denver), \$3,050 from other cities (airfare additional)

Travel to the Hawaiian Islands to explore Hawaii, Kauai, and Maui. The state of Hawaii with its active volcanoes, cloud forests, and pristine coral reefs, is the most diverse state in the country. Experience Hawaiian culture, and visit many of the places for which this state is well known.

To register or for more information, contact:

Mike Sipes, 303/237-4975
mpsipes@centurylink.net

ALASKA II (K-12)

CT-1505-15M

2 semester credit hours

Dates: July 24-27

Location: Prince William Sound, Alaska

Instructor: Melanie Phelps

Tuition Fee: \$1,090 (includes ferry, train, lodging,
ground transportation, credit)

Travel by train and ferry to Valdez to explore Prince William Sound. Kayak among glacial icebergs calved from the huge Columbia Glacier. Explore the Old Valdez town site that was destroyed in the 1964 earthquake. Journey along Richardson Highway to view the pipeline terminus and the Worthington Glacier. See the spectacular mountains of the Wrangell in St. Elias National Park.

To register or for more information, contact:

Melanie Phelps, 719/252-1789

melaniephe@aol.com

www.coloradorivertrip.com

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

CT-1112-15M

4 semester credit hours

Dates: August 1-9

Location: Belize, Central America

Instructor: Melanie Phelps

Tuition Fee: \$2,370 (includes lodging, ground
transportation, credit)

Submerge yourself in the colorful world of the Belize coral reefs. Explore the 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.

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. 160A
 Golden, CO 80401
 Phone: (303) 279-3855
<http://te.csmspace.com>