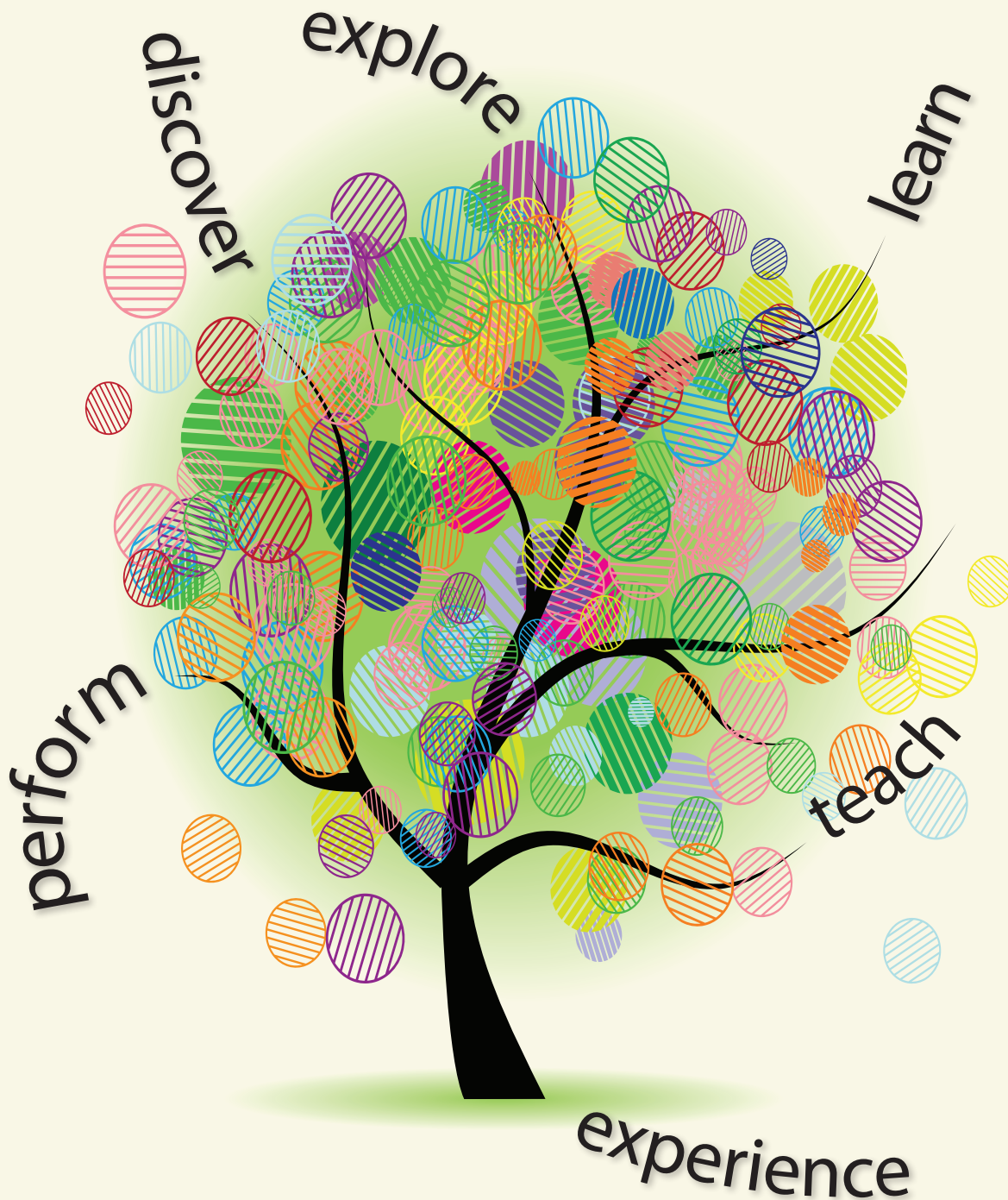


# Teacher Enhancement Program for K-12 Educators

AT THE COLORADO SCHOOL OF MINES



**SPRING 2012**

# COLORADO SCHOOL OF MINES

## Teacher Enhancement Program

### Spring 2012

#### 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. 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 2012 Course Offerings

### ROCKY MOUNTAIN MAMMALS (K-12)

CT-1126-12S  
1 semester credit hour  
Dates: February 11-12  
Time: 9:00am-5:00pm  
Location: CSM campus, Golden  
Instructor: Marty Colon  
Tuition Fee: \$125

The Rocky Mountains are blessed with a great diversity of wildlife. Learn how to easily identify mammals and see more wildlife. Explore how the past has impacted current mammal distribution, and what the future holds for Rocky Mountain mammals.

To register, mail the enrollment form and full tuition amount to the CSM Teacher Enhancement Office.

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

CT-0301-12S  
1 semester credit hour  
Dates: February 18-19  
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](mailto:melaniephe@aol.com)

### CLASSROOM PETS: SMALL MAMMALS IN THE CLASSROOM (K-12)

CT-0915-12S  
0.5 semester credit hour  
Date: March 3  
Time: 9:00am-5:00pm  
Location: Dumb Friends League, Denver  
Instructor: Nicole Schimming  
Tuition Fee: \$68

Can a classroom pet foster learning? Can a classroom pet teach responsibility? Explore these questions and more. Learn about different species of small mammals, including rabbits, ferrets, guinea pigs, and mice. Meet with some of these small creatures, and decide if a classroom pet is right for you and your classroom.

To register, mail the enrollment form and full tuition amount to the CSM Teacher Enhancement Office.

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

CT-1112-12S  
4 semester credit hours  
Dates: March 24-April 1  
Location: Belize, Central America  
Instructor: Melanie Phelps  
Tuition Fee: \$2,470 (includes airfare, lodging, ground transportation)

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](mailto:melaniephe@aol.com)

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

CT-1201-12S  
4 semester credit hours  
Dates: March 24-April 1  
Locations: Spain  
Instructor: Joyce Webb  
Tuition Fee: \$3,670 (includes airfare, lodging, ground transportation, tours)

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.

**To register or for more information, contact:**  
Joyce Webb, 719/229-5482  
[joycewebb@ymail.com](mailto:joycewebb@ymail.com)  
[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

### DIGITAL PHOTOGRAPHY AND POWERPOINT ONLINE (K-12)

CT-05120-12S  
1.5 semester credit hours  
Dates: April 1-30  
Instructor: John LaFerlita  
Tuition Fee: \$200

Learn how to take better photographs and transfer them into PowerPoint. Emphasis will be on creating a more visually oriented presentation. You will need a basic understanding of computers and the Internet. This class is for beginners using a PC or a Mac with a DVD player. Instruction is by online videos that have been created specifically for the class.

**To register or for more information, contact:**  
John LaFerlita  
303/678-0312 or [laferlit@hotmail.com](mailto:laferlit@hotmail.com)

### DIGITAL PHOTOGRAPHY ONLINE (K-12)

CT-0562-12S  
1.5 semester credit hours  
Dates: April 1-30  
Instructor: John LaFerlita  
Tuition Fee: \$200

Learn how to take better photographs and edit the images using the online version of Adobe Photoshop Elements. Topics will include light, composition, nature (landscape and close-ups). This class is for beginners using a PC or a Mac with a DVD player. You will need a basic understanding of computers and the Internet. Instruction is by online videos created specifically for the class.

**To register or for more information, contact:**  
John LaFerlita  
303/678-0312 or [laferlit@hotmail.com](mailto:laferlit@hotmail.com)

## **ADOBE PHOTOSHOP ELEMENTS ONLINE (K-12)**

CT-0737-12S

1.5 semester credit hours

Dates: April 1-30

Instructor: John LaFerlita

Registration Fee: \$200

Learn to edit photographs and create slide shows that you can use in the classroom using the online version of Adobe Photoshop Elements. This class is for beginners using a PC or a Mac with a DVD player. You will need a basic understanding of computers and the Internet. Instruction is by online videos that have been created specifically for this class.

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

John LaFerlita, 303/678-0312 or

laferlit@hotmail.com

## **ANIMAL TRACKING: THE SCIENTIFIC METHOD IN ACTION (K-12)**

CT-9938-12S

1 semester credit hour

Dates: April 14-15

Time: 9:00am-5:00pm

Location: CSM campus, Golden

Instructor: Marty Colon

Tuition Fee: \$130

Tracking is a basic naturalist's skill that will greatly expand your experience, knowledge, and understanding of nature. Learn a systematic method that will enable you to identify virtually any North American mammal's footprints. After you learn to track, the outdoors will never look the same!

To register, mail the enrollment form and full tuition amount to the CSM Teacher Enhancement Office.

## **TEACHING OUTSIDE THE BOX CONFERENCE: COLORADO'S CONFERENCE ON ENVIRONMENTAL EDUCATION (PREK-12)**

CT-1207-12S

1 semester credit hour

Dates: April 27-29

Location: LaQuinta Inn, Loveland

Course Coordinator: Jenn Rieskamp, 303/273-9527

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

Registration Fee: varies; check website [www.cae.org](http://www.cae.org)

This action-packed conference brings together the best in environmental education with engaging presentations, networking, resource sharing, classroom-ready activities, and more. Choose from over 50 sessions on topics ranging from outdoor skills, forestry, wildlife, art and nature, science and literacy, and environmental education and standards.

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

Colorado Alliance for Environmental Education

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

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

CT-1031-12S

1 semester credit hour

Dates: April 28-29

Time: 8:00am-5:00pm

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](mailto:melaniephe@aol.com)

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

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

CT-0350-12S

1 semester credit hour

Dates: May 5-6

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](mailto:melaniephe@aol.com)

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

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## **Additional Programs of Interest**

### **SOUTH PLATTE EDUCATION SERIES**

CT-9421; **Build-Your-Own Natural History of Colorado**

A natural history series designed to your interests and teaching needs. Choose from a menu of courses which provide hands-on exploration of the wildlife and ecosystems along the S. Platte river. Combine classes on evenings and/or weekends to earn one semester credit hour. Visit our website at [www.sspr.org/nature](http://www.sspr.org/nature) for class descriptions.

Contact Skot Latona, South Suburban Park and Recreation District, at 303/730-1022 x14 or email [skotl@sspr.org](mailto:skotl@sspr.org) for details or to obtain the special tuition flat rate.

## EcoAdventure Course Offerings

**Note: Register for EcoAdventure courses through EcoAdventures. See box on this page.**

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

CT-0700-12S

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$135 (**\$155 after January 5<sup>th</sup>**)

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-9616-12S

1 semester credit hour

Dates & Times:

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

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

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$130 (**\$150 after January 26<sup>th</sup>**)

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-9960-12S

1 semester credit hour

Dates & Times:

February 25 (9:00am-5:00pm)

February 26 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$135 (**\$155 after Feb. 9<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.

### WILD FELINES OF COLORADO (K-12)

CT-9712-12S

1 semester credit hour

Dates & Times:

March 10 (8:00am-5:00pm)

March 11 (9:00am-3:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$140 (**\$160 after February 23<sup>rd</sup>**)

Discover the mysterious mountain lion, evasive bobcat, and reintroduced lynx. Explore their natural history through hands-on activities and an opportunity to observe each on a field trip to a feline refuge.

### THIRTEEN THOUSAND YEARS OF COLORADO HISTORY (K-12)

CT-1069-12S

1 semester credit hour

Dates & Times:

March 17 (9:00am-5:00pm)

March 18 (9:00am-4:00pm)

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$135 (**\$155 after Feb. 1<sup>st</sup>**)

Take a tour through Colorado culture. Discuss Native Americans, Spanish settlers, pioneers, railroaders, miners, the Tenth Mountain Division, baby boomers, ski bums, and more. Make, use, and take home a plethora of EcoAdventure "make and take" classroom projects.

### BIRDS OF PREY (K-12)

CT-9614-12S

1 semester credit hour

Dates & Times:

April 14 (12:00pm-7:30pm)

April 15 (8:30am-4:00pm)

Location: CSM campus, Golden

Instructor: Pam Batton

Tuition Fee: \$135 (**\$155 after March 29<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.

**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.

## Denver Zoo Course Offerings

Note: Register for Denver Zoo courses through the Zoo. See box below.

### ASIAN TROPICS: INNOVATION IN SUSTAINABILITY AT THE ZOO (GR. 3-12)

CT-1168-12S  
0.5 semester credit hour  
Date: February 25  
Time: 8:30am-4:30pm  
Location: Denver Zoo  
Instructor: Molly Maloy  
Tuition Fee: \$95

Get the inside scoop on Denver Zoo's newest exhibit *Asian Tropics*, opening late spring 2012. Discover how it can be a model for teaching sustainable practices. Explore the science of gasification -- the technology that will convert the zoo's waste to power -- and how your students can apply scientific principles to create similar technology in the classroom. Programming based on Colorado state academic standards.

### ASIAN TROPICS: USING THE EXHIBIT TO INSPIRE INQUIRY (PREK-12)

CT-1169-12S  
0.5 semester credit hour  
Date: March 17  
Time: 8:30am-4:30pm  
Location: Denver Zoo  
Instructor: Molly Maloy  
Tuition Fee: \$95

Get the inside scoop on Denver Zoo's newest exhibit *Asian Tropics*, opening late spring 2012. Discover ways to connect your students to the animals and people in Asian Tropical ecosystems through guided and open inquiry. Discuss what it means to save wildlife by helping people, and find ways to inspire your students to be young scientists. Learn about the new Asian Tropics exhibit, and perform your own inquiry investigation on zoo grounds! Programming based on Colorado state academic standards.

### ASIAN TROPICS: CONNECTING STUDENTS TO A BIO-DIVERSE ECOSYSTEM (PREK-12)

CT-1170-12S  
0.5 semester credit hour  
Date: April 28  
Time: 8:30am-4:30pm  
Location: Denver Zoo  
Instructor: Molly Maloy  
Tuition Fee: \$95

Get the inside scoop on Denver Zoo's newest exhibit *Asian Tropics*, opening late spring 2012. Explore the connections between people, animals, and plants as you uncover the amazing biodiversity of tropical Asia. Learn about the exceptional adaptations of animals such as Asian elephants, greater one-horned Indian rhinos, and clouded leopards. Discover how your students can connect to conservation in this distant ecosystem. Programming based on Colorado state academic standards.

Register online for any Denver Zoo course at:  
[www.denverzoo.org/education/teacherWorkshops.asp](http://www.denverzoo.org/education/teacherWorkshops.asp)

For questions, contact the Denver Zoo Education Department at 303/376-4808.

## Denver Museum of Nature & Science Course Offerings

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

### BODY OF KNOWLEDGE: HYBRID ONLINE COURSE (GR. 5)

CT-1161-12S  
2 semester credit hours  
Dates: January 21-March 22  
January 21 (9:00am-3:00pm)  
February 15 (4:30-8:30pm)  
March 22 (4:30-6:30pm)  
Instructor: Kate Geer  
Tuition Fee: \$80  
Pre-requisite: For practicing 5th grade teachers only.

Build your health science knowledge base and learn how to encourage your students to maintain a healthy lifestyle. Focus on how to effectively use the Museum resources and other materials for learning and enhancing your understanding of key concepts in health science. Learn how to make health science relevant to your students' lives through cutting-edge teaching technologies. For more information and an online schedule, visit [dmns.org/teachers/professional-development](http://dmns.org/teachers/professional-development).

To register for any DMNS course, contact:  
DMNS Reservations, 303/370-6000  
For more information, contact Kate Geer, 303/370-6441.



## Cheyenne Mountain Zoo Course Offerings

**Note: Register for Cheyenne Mtn. Zoo courses through the CM Zoo. See box below.**

### **WILDLIFE FOR SALE (GR. 6-12)**

CT-0491-12S  
0.5 semester credit hour  
Date: January 14  
Time: 9:00am-5:00pm  
Location: Cheyenne Mtn. Zoo, Colorado Springs  
Instructors: Joy Schkade, Megan McDaniel  
Tuition Fee: \$35 (**payable during workshop**)  
Registration Fee: \$55.25 members; \$65.25

Did you know that biodiversity can be positively impacted through wildlife trade? Explore this topic as well as investigate the illegal forms of wildlife trade. Learn about our Suitcase for Survival, leave with great classroom activities, and be empowered to make great choices as a consumer.

### **THE SUMATRAN SITUATION (K-12)**

CT-1206-12S  
0.5 semester credit hour  
Date: February 11  
Time: 9:00am-5:00pm  
Location: Cheyenne Mtn. Zoo, Colorado Springs  
Instructors: Joy Schkade, Megan McDaniel  
Tuition Fee: \$35 (**payable during workshop**)  
Registration Fee: \$55.25 members; \$65.25

What do orangutans, siamangs, tigers, rhinos, and the island of Sumatra have in common? Investigate endangered animals, shrinking wild spaces, and the constant struggle between humans and wildlife. Explore how choices you make here at home can have a positive influence on the survival of these species. Take home different and enlightening ways to teach about wildlife and habitat conservation.

### **EXPEDITION ECOSYSTEM (PREK-8)**

CT-1205-12S  
0.5 semester credit hour  
Date: April 28  
Time: 9:00am-5:00pm  
Location: Cheyenne Mtn. Zoo, Colorado Springs  
Instructors: Joy Schkade, Megan McDaniel  
Tuition Fee: \$35 (**payable during workshop**)  
Registration Fee: \$55.25 members; \$65.25

Take an expedition to explore ecosystems in a way that will ignite the passion for nature in your students. Examine near-by places like the prairie and the Rocky Mountains, as well as travel deep into the rain forests and high atop the Himalayas.

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

**Erin Hobson, 719/633-9925 (x127) or  
edprograms@cmzoo.org**

**To register online:**

**[www.cmzoo.org/exploreLearn/adults/classes.asp](http://www.cmzoo.org/exploreLearn/adults/classes.asp)**

## Project WILD & Project Learning Tree

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. Visit our web sites at [www.coloradopl.org](http://www.coloradopl.org) and <http://wildlife.state.co.us/Education/TeacherResources/Pages/TeacherResources2.aspx> for more information.

### **BASIC PROJECT WILD AND LEARNING TREE USING SHELTERED INSTRUCTION FOR SECOND LANGUAGE LEARNERS (K-12)**

CT-0823-12S

1 semester credit hour

Dates & Times:

9:30am, February 4 through 4:00pm, February 5

Location: Cal-Wood Ed. Center, Jamestown

Tuition Fee: \$50 (**payable during workshop**)

Registration Fee: \$105 (includes meals and lodging)

**Registration Contact:** Rafael Salgado, 303/449-0603 or [admin@calwood.org](mailto:admin@calwood.org)

### **PROTECTING OUR PRAIRIES (K-8)**

CT-1178-12S

0.5 semester credit hour

Date: March 3

Time: 9:00am-5:00pm

Location: Cheyenne Mtn. Zoo, Colorado Springs

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

Registration Fee: \$55.25 for CM Zoo members; \$65.25

Learn about the interactions of the prairie ecosystem and the scientific skills associated with saving and managing endangered species. Receive lessons for your classroom and learn how to check out a Prairie Trunk for use at your school. Learn how to bring the wilds of the prairie into the wilds of your class with a visit from the prairie animals from the Zoo's ZOOM program.

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

Erin Hobson, Cheyenne Mtn. Zoo

719/633-9925(x127) or [www.cmzoo.org](http://www.cmzoo.org)

### **GLOBAL CONNECTIONS: FORESTS OF THE WORLD (GR. 9-12)**

CT-0975-12S

0.5 semester credit hour

Date: April 7

Time: 9:00am-5:00pm

Location: Cheyenne Mtn. Zoo, Colorado Springs

Course Coordinator: Shawna Crocker, 303/202-4662

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

Registration Fee: \$55.25 CM Zoo members, \$65.25

Explore a local forest system while learning about global forest ecology and sustainability through cultural and social connections to world forests. Service-learning projects are introduced as a way to connect forests to the classroom as you look at how zoos use horticulture in exhibits designed for conservation.

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

Erin Hobson, Cheyenne Mtn. Zoo

719/633-9925(x127) or [www.cmzoo.org](http://www.cmzoo.org)

### **ENVIRONMENTAL EXPERIENCES FOR EARLY CHILDHOOD (PREK-1)**

CT-1208-12M

0.5 semester credit hour

Date: July 21

Time: 9:00am-4:30pm

Location: Starsmore Discovery Center, Colorado Springs

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

Registration Fee: \$35

Integrate nature-based exploration, art, literature, math, science, music and movement, and outdoor play into early childhood education programs. Exploring nature is a complete sensory experience; early experiences with the natural world excite children's imaginations.

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

Erika Sueker, 303/202-4661

[www.coloradopl.org](http://www.coloradopl.org)

**For updated information contact:**

**Project WILD, 303/291-7262**

**Project Learning Tree, 303/202-4662**

**Check the following website for added workshops:**

**<http://wildlife.state.co.us/Education/TeacherResources/Pages/TeacherResources2.aspx>**



## Summer 2012 Course Preview

### PARIS TO NORMANDY: WORLD WAR I AND II SITES (K-12)

CT-0964-12D  
4 semester credit hours  
Dates: May 26-June 5  
Locations: Belgium & France  
Instructor: Joyce Webb  
Tuition Fee: \$3,970 (includes airfare, lodging, ground transportation, entry fees)

Tour the battlefields in Southern Belgium's Flanders Field; then travel to Normandy for an in-depth view of WWII's beaches, cemeteries and other war sites. Continue your journey to Paris for a visit to one of the world's best WWI and II museums. Learn how the German occupation affected Belgium, Paris, and the rest of France.

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

Joyce Webb, 719/229-5482  
[joycewebb@ymail.com](mailto:joycewebb@ymail.com)  
[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

### ITALY REVEALED: EXPLORING THE LAND OF THE ANCIENT ROMANS (K-12)

CT-0805-12D  
5 semester credit hours  
Dates: June 5-17  
Location: Italy  
Instructor: Joyce Webb  
Tuition Fee: \$4,210 (includes airfare, lodging, ground transportation, entry fees)

Travel from Roman temples to medieval churches, and from the ruins of Pompeii to Vatican City's treasure trove. Walk through the Roman Forum and sleep in the city of Siena. Experience Florence, the artistic capital of the world; hike along Le Cinque Terra, the sun-drenched Italian Riviera; marvel at the Leaning Tower of Pisa; and absorb Venice, the most romantic city in the world.

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

Joyce Webb, 719/229-5482  
[joycewebb@ymail.com](mailto:joycewebb@ymail.com)  
[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

### SCIENCE AND ART (K-6)

CT-0054-12D  
2 semester credit hours  
Dates: June 11-14  
Time: 8:00am-5:00pm  
Location: WarrenTech North, Arvada  
Tuition Fee: \$90 (**payable during workshop**)  
Materials & Supplies Fee: \$300 (must be received by April 30)

Learn how a science teacher and an art teacher can integrate science and art. Explore scientific background, perform hands-on science and art activities, acquire materials for classroom use, and receive an extensive literature resource list. A strong emphasis will be placed on the National Standards and Assessment. Work with hot air balloons, chromatography, papermaking, polymers and plastics, kaleidoscopes, and more.

**To obtain an application, contact:**

Sue Berger, 303/674-7386  
[saberger2011@gmail.com](mailto:saberger2011@gmail.com)

### ALL ABOUT MINING: A TOTAL CONCEPT OF THE MINING INDUSTRY (K-12)

CT-5700-12M  
6 semester credit hours  
Dates: June 11-July 6  
Time: approx. 8:00am-early/mid afternoon (except on all-day field trips)  
Location: CSM campus, Golden  
Instructors: more than eighty-five authorities from industry, government, academia & private groups  
Tuition Fee: \$250 (\$300 for registrations after May 31)

Obtain a general overview of the minerals industries, including geology, mining, ore-processing, environmental responsibility, career opportunities, etc., from industry experts via classroom lectures and nine days of field trips to surface/underground mines and processing plants. Finish the course with a set of lesson plans developed by course participants that you can apply in your classroom this fall.

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

CMA Education Foundation, Inc.  
303/575-9199, [colomine@coloradomining.org](mailto:colomine@coloradomining.org)  
[www.allaboutmining.org](http://www.allaboutmining.org)

### MUSEUMS OF PARIS (K-12)

CT-04132-12D  
4 semester credit hours  
Dates: June 17-25  
Location: Paris, France  
Instructor: Joyce Webb  
Tuition Fee: \$3,470 (includes airfare, lodging, ground transportation, entrance fees)

Visit the Louvre, Orsay, Rodin, and Picasso Museums plus tour 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. 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](mailto:joycewebb@ymail.com)  
[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

### HANDS-ON SCIENCE ACTIVITIES (GR. 6-9)

CT-0829-12D  
2 semester credit hours  
Dates: June 18-21  
Time: 8:00am-5:00pm  
Location: WarrenTech North, Arvada  
Course Coordinator: Sue Berger  
Tuition Fee: \$90 (**payable during workshop**)  
Materials & Supplies Fee: \$300 (must be received by April 30)

Receive hands-on, discovery-oriented physical science activities that utilize inexpensive items and toys combined with real-world experiences that will enable your students to better understand abstract concepts. Align these activities with state science standards and assessments. Some of the topics covered will include global warming, electricity, wind and solar power, the scientific method, energy, weather, and Newton's Laws.

**To obtain an application, contact:**

Sue Anne Berger, 303/674-7386  
[saberger2011@gmail.com](mailto:saberger2011@gmail.com)

## **HAWAII: VOLCANOES & CORAL REEFS (K-12)**

CT-0906-12D

4 semester credit hours

Dates: June 18-27

Location: Big Island of Hawaii

Instructor: Melanie Phelps

Tuition Fee: \$2,970 (includes airfare, ground transportation, lodging, entrance fees)

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](mailto:melaniephe@aol.com)

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

## **DIGITAL PHOTOGRAPHY ONLINE (K-12)**

CT-0562-12M

1.5 semester credit hours

Dates: June 18-July 16

Location: Online course

Instructor: John LaFerlita

Registration Fee: \$200

Learn how to take better photographs and to edit the images using the free online version of Adobe Photoshop Elements. Topics will include light, composition, nature (landscape and close-ups). This class is for beginners using a PC or a Mac with a DVD player. You will need a basic understanding of computers and the Internet. Instruction is by online videos created specifically for the class.

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

John LaFerlita, 303/678-0312 or

[laferlit@hotmail.com](mailto:laferlit@hotmail.com)

## **DIGITAL PHOTOGRAPHY AND POWERPOINT ONLINE (K-12)**

CT-05120-12M

1.5 semester credit hours

Dates: June 18-July 16

Location: Online course

Instructor: John LaFerlita

Registration Fee: \$200

Learn how to take better photographs and transfer them into PowerPoint. Emphasis will be on creating a more visually oriented presentation. This class is for beginners using a PC or a Mac with a DVD player. You will need a basic understanding of computers and the Internet. Instruction is by online videos that have been created specifically for the class.

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

John LaFerlita, 303/678-0312 or

[laferlit@hotmail.com](mailto:laferlit@hotmail.com)

## **ADOBE PHOTOSHOP ELEMENTS ONLINE (K-12)**

CT-0737-12M

1.5 semester credit hours

Dates: June 18-July 16

Location: Online course

Instructor: John LaFerlita

Registration Fee: \$200

Learn to edit photographs and create slide shows that you can use in the classroom with the free online version of Adobe Photoshop Elements. This class is for beginners using a PC or a Mac with a DVD player. You will need a basic understanding of computers and the Internet. Instruction is by online videos that have been created specifically for the class.

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

John LaFerlita, 303/678-0312 or

[laferlit@hotmail.com](mailto:laferlit@hotmail.com)

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

CT-0419-12M

4 semester credit hours

Dates: June 25-July 3

Location: Ireland

Instructor: Joyce Webb

Tuition Fee: \$2,670 (includes airfare, lodging, ground transportation, and tours)

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](mailto:joycewebb@ymail.com)

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

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

CT-0905-12M

4 semester credit hours

Dates: July 2-10

Location: Eastern & Northern Ireland

Instructor: Joyce Webb

Tuition Fee: \$2,770 (includes airfare, lodging, ground transportation, and tours)

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 6<sup>th</sup> 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](mailto:joycewebb@ymail.com)

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

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

CT-0428-12M  
3.5 semester credit hours  
Dates: July 5-11  
Location: Grand Canyon  
Instructor: Melanie Phelps  
Tuition Fee: \$2,765

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](mailto:melaniephe@aol.com)  
[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

### **THE GREEN RIVER – MAJESTIC JOURNEY FROM GLACIERS TO GORGES (K-12)**

CT-0355-12M  
5 semester credit hours  
Dates: July 18-28  
Locations: Yellowstone & Grand Teton National Parks, Flaming Gorge, Dinosaur National Monument  
Instructor: Melanie Phelps  
Tuition Fee: \$1,810

Discover river headwaters, geysers, mud pots, and mountains while exploring Yellowstone and the Grand Tetons National Parks. Follow the Green River from its mother snowfields in the Wind River Range of Wyoming through the beautiful Flaming Gorge and into the sandstone cliffs of Dinosaur National Monument. Whitewater raft and canoe through convoluted canyons, and gaze upon dinosaur bones and Fremont rock art while conducting authentic environmental research.

**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)

## **Denver Earth Science Project Course Offering**

### **DINOSAUR RIDGE ACTIVITIES (K-8)**

CT-1116-12M  
1.5 semester credit hours  
Dates & Times:  
July 30-August 1 (8:30am-4:30pm)  
August 2 (8:30am-12:30-pm)  
Location: Dinosaur Ridge Visitor Center, Morrison  
Instructor: Marsha Barber  
Tuition Fee: \$160

Learn the geology and paleontology at Dinosaur Ridge and its vicinity by completing hands-on activities and then observing in the field. Receive a notebook of activities that can be duplicated for use with middle school students.

To register, mail the enrollment form and full tuition amount to the CSM Teacher Enhancement Office.

## Summer 2012 Canoe Trips

Note: Register for canoe trips through Centennial Canoe Outfitters. See box below.

### GEOLOGY, ECOLOGY, AND ART OF THE GREEN RIVER BY CANOE, LEVELS I & II (K-12)

CT-1209-12M

3 semester credit hours

Dates & Times:

Lecture: June 25 (9:00am-5:00pm)

Canoe Trip: June 27-July 1

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

Instructors: Ed Adams, Karen Caddis

Tuition Fee: \$748 (**\$100 deposit required upon enrollment**)

Join a geologist and biologist to explore 60 miles of wilderness along Utah's peaceful Green River as it winds through the red-rock formations just north of Canyonlands National Park. Explore vast canyon systems which branch out in all directions. The course will emphasize the unique geology and natural history of the area as we investigate its riparian ecosystem and the surrounding desert to learn how human, plant, and animal life has adapted. Study how people and the passage of time have changed the region.

### ASTRONOMY IN THE WILDERNESS/COLORADO RIVER, LEVELS I & II (K-12)

CT-0262-12M

2 semester credit hours

Dates & Times:

Lecture: July 19 (1:00-8:30pm)

Canoe Trip: July 21-23

Locations: The lecture will be held at Fiske Planetarium, Boulder. The trip will begin and end near Grand Junction, CO.

Instructor: Sanlyn Buxner

Tuition Fee: \$469 (**\$100 deposit required upon enrollment**)

Get away from the city lights and view spectacular sights of the heavens along the Colorado River as you canoe through canyons of the Colorado Plateau. Learn about basic properties of stars and stellar evolution, constellations, properties of light, basic optics, deep sky objects, solar system dynamics, and new topics in astronomy. Course includes fun ways to teach astronomy in the classroom.

To register, mail the CSM enrollment form along with the \$100 deposit (made payable to Centennial Canoe Outfitters) to:

Centennial Canoe Outfitters

P.O. Box 3365

Centennial, CO 80161-3365

720/283-0553 or toll-free 1/877/353-1850

E-mail: [info@centennialcanoe.com](mailto:info@centennialcanoe.com)

Register online: [www.centennialcanoe.com](http://www.centennialcanoe.com)

Centennial Canoe Outfitters will supply all canoes, group equipment, meals, and canoeing instruction prior to the trip. You are responsible for your transportation to the river and back. No previous canoeing experience is required.

#### Level II Courses

Former participants in Level I classes can qualify for Level II credit by completing a special project to be conducted concurrently with the basic class offering.

## 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:** ( ) \_\_\_\_\_

**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  
 1600 Jackson St., Ste. 160A  
 Golden, CO 80401  
 Phone: (303) 279-3855  
<http://te.csmspace.com>