

Teacher Enhancement Program for K-12 Educators

AT THE COLORADO SCHOOL OF MINES



SUMMER 2021

<http://te.csmspace.com>

COLORADO SCHOOL OF MINES

Teacher Enhancement Program

Summer 2021

REGISTRATION

All of the courses announced in this brochure are coordinated through the Office of Special Programs and Continuing Education at the Colorado School of Mines. **Unless another organization or individual is specified as the registration contact in a course listing, enrollment forms and tuition check(s) should be mailed to:**

Teacher Enhancement Program
Colorado School of Mines
924 16th St., Suite 221
Golden, CO 80401-0028
(303) 384-2692

To view the most current teacher enhancement course listings, or to order an official transcript, visit our website 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.

Summer 2021 Course Offerings

INTRODUCING GREEN CHEMISTRY IN THE HS CLASSROOM (GR. 9-12)

CT-1158-21D

3 semester credit hours

Dates: June 7-August 2

Location: online

Instructor: Cassandra Knutson

Course Coordinator: Kate Anderson

Tuition Fee: \$140 (**payable during workshop**)

Registration Fee: \$450

Green chemistry is a useful tool to remove hazards and make the lab a safer place for students, while also providing context for chemistry concepts. We will focus on the 12 principles of green chemistry, lab safety, and the creation of green chemistry lessons and labs.

To register or for more information, contact:

Kate Anderson, Beyond Benign

978/229-5454 or

kate_anderson@beyondbenign.org

REVOLUTIONIZING READING (K-8)

CT-2022

1.5 semester credit hours

Dates:

Session I: June 14-16

Session II: July 12-14

Time: 8:00am-4:00pm

Location: Hampton Inn, Ft. Collins

Instructor: Bri Schupp

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

Registration Fee: \$500 (includes course materials and book)

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

To register or for more information, contact:

Bri Schupp, Reading Rev

970/217-1085 or bri@readingrev.com

ALL ABOUT MINING HYBRID COURSE (K-12)

CT-5700-21D

6 semester credit hours

Dates:

June 17-18 (in class portion)

June 21-25 (field trip portion)

Locations: online, CSM campus, and field trips

Instructors: various speakers

Course Coordinator: Shannon Mann, 720/250-6635

Tuition Fee: \$300

Gain a detailed overview of America's modern mining industry, answering important questions such as: What does the mining industry really do and how does it impact the environment? How does the mining industry function? Why is mining important to America's society? Learn how our modern mining industry is discovering and producing minerals, energy, and a variety of other materials we need for our global society while also working to protect the environment. Visit the website for more information on course requirements.

To register or for more information, contact:

CMA Education Foundation, Inc.

303/575-9199, coordinator@allaboutmining.org

www.allaboutmining.org

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

CT-1031-21D

1 semester credit hour

Dates: June 24-25

Location: meet in Pueblo; drive to NM

Instructor: Melanie Phelps

Tuition Fee: \$155 (includes credit)

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

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

CT-1620-21M

2 semester credit hours

Dates: June 25-July 25

Instructor: Sarah Jones

Tuition Fee: \$100 (**payable during workshop**)

Registration Fee: \$70

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

To register or for more information, contact:

Sarah Jones, Chicago Botanic Garden

919/616-4098 or sjones@chicagobotanic.org

LEADVILLE AND THE COLORADO MINERAL BELT (K-12)

CT-2101-21D

1 semester credit hour

Dates & Times:

June 25 (8:00am-4:30pm)

June 26 (8:00am-5:30pm)

Location: Leadville & Twin Lakes

Instructors: Danette Ulrich & Ali Dowd

Course Coordinator: Danette Ulrich

Registration Fee: \$195 (includes credit, train trip, museum entrances, fly fishing rental)

Explore the histories of Leadville and Twin Lakes during Colorado's Gold and Silver "booms." By 1879 silver mining was in full swing in Leadville. The town featured modern amenities for the newly wealthy; brothels, gambling halls, and saloons enticed the more colorful element who were seeking to get rich through nefarious means. Leadville fortunes were made for many famous people while neighboring Twin Lakes was an important transportation hub between Leadville and Aspen.

To register or for more information, contact:

Danette Ulrich

303/419-3693 or danetteu@gmail.com

Livingitlearningit.com

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

CT-1402-21D

2 semester credit hours

Dates: June 26-29

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

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

CT-1428-21M

2 semester credit hours

Dates: July 7-11

Location: meet in Scotts Bluff, NE

Instructor: Melanie Phelps

Tuition Fee: \$420 (includes entrance fees and 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

BONAIRE: CORAL REEF BIODIVERSITY ENCHANTMENT (K-12)

CT-2002-21M

4 semester credit hours

Dates: July 17-25

Location: Ecuador

Instructor: Melanie Phelps

Tuition Fee: \$2,175 (includes lodging, ground transportation, entrance fees, credit; does not include airfare)

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

To register or for more information, contact:

Melanie Phelps, 719/252-1789

melaniephe@aol.com

www.coloradorivertrip.com

OCEAN LITERACY (K-12)

CT-0710-21M
0.5 semester credit hour
Date: July 28
Time: 9:00am-5:00pm
Location: Downtown Aquarium, Denver
Course Coordinator: Colleen Shipley, 303/561-4565
Tuition Fee: \$40 (**payable during workshop**)
Registration Fee: \$75 (includes materials, parking, admission & snacks)

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 principles of ocean literacy through interactive lessons and visiting the Aquarium residents. Registrations close 2 weeks prior to the start date.

To register or for more information, contact:
Downtown Aquarium Sales & Service Center
303/561-4444

PLASTIC PLANET (GR. 1-12)

CT-2019-21M
0.5 semester credit hour
Date: July 29
Time: 9:00am-5:00pm
Location: Downtown Aquarium, Denver
Course Coordinator: Colleen Shipley, 303/561-4565
Tuition Fee: \$40 (**payable during workshop**)
Registration Fee: \$75 (includes materials, parking, admission & snacks)

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

To register or for more information, contact:
Downtown Aquarium Education & Sales
303/561-4444

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

CT-1165-21M
1 semester credit hour
Dates: July 31-August 1
Locations: Fairplay & Alma
Instructor: Melanie Phelps
Tuition Fee: \$175 (includes credit)

Capture gold fever as you explore mines, mills, and ghost towns near Fairplay. Peer through broken window frames and trek twisted rails in Leavick. Creep softly through Alma’s past looking for the legendary Silver Heels. Let the timberline mines and the railroad history of Como ignite your imagination. Relive the fortunes, dreams, and disasters of Colorado mining history.

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

EcoAdventure Course Offerings

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

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

CT-1804-21M

1 semester credit hour

Date & Time:

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

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

Location: EcoAdventures, Morrison

Instructor: Trey Corkern

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

Practice skills for the classroom that literary figures used to survive: botany (My Side of the Mountain), zoology (Julie of the Wolves), chemistry (Education of Little Tree), first aid (Little Britches), homesteading (Little House), agriculture (Green Book), build elaborate gizmos to cope with the environment (Hunger Games), and more.

WILDFLOWERS OF THE ROCKIES (K-12)

CT-9613-21M

1 semester credit hour

Dates & Times:

July 10 (9:00am-5:00pm)

July 11 (9:00am-4:00pm)

Location: EcoAdventures, Morrison

Instructor: Pam Batton

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

Spend time in the wildflowers as you explore a variety of elevations and identify and discover interesting botanical facts, uses, myths and legends about wildflowers. Experience "botany in a bowl," a creative activity to help kids understand the basics of botany.

WOMEN OF COLORADO (K-12)

CT-1720-21M

1 semester credit hour

Date & Time:

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

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

Location: CSM campus, Golden

Instructor: Trey Corkern

Tuition Fee: \$165 (**\$185 after July 5th**)

Colorado has been the crucible for creating remarkable women. Discover the astounding stories of stateswomen, entrepreneurs, authors, politicians, physicians, saints, educators, and others who forged the Centennial state. Part of this class will include a walking lecture through Golden.

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

CT-0519-21M

1 semester credit hour

Dates: July 24 & 25

Times: 9:00am-5:00pm

Location: EcoAdventures, Morrison

Instructor: Pam Batton

Tuition Fee: \$165 (**\$185 after July 8th**)

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

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.

Course Enrollment Form

Please Print

Full Name: _____
 Mailing Address: _____
 City: _____ State: _____ Zip: _____
 Social Security Number*: _____ Date of Birth: _____
 Telephone: (school) _____ (cell/home) _____
 School: _____ Grade Level: _____
 Email: _____

***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
 924 16th St., Ste. 221
 Golden, CO 80401
 Phone: (303) 3842692
<http://te.csmspace.com>