

# Teacher Enhancement Program for K-12 Educators

AT THE COLORADO SCHOOL OF MINES



# SUMMER 2024

<http://te.csmspace.com>

# COLORADO SCHOOL OF MINES

## Teacher Enhancement Program

### Summer 2024

#### REGISTRATION

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

Teacher Enhancement Program  
Colorado School of Mines  
Green Center, Ste. 221  
Golden, CO 80401-0028  
(303) 384-2692

**Courses are added to our website frequently, to view the most up-to-date course listings or to order an official transcript, visit our home page: [te.csmospace.com](http://te.csmospace.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.csmospace.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 2024 Course Offerings

### ALL ABOUT MINING (K-12)

CT-2204-24D  
1 semester credit hour  
Dates: June 3-4  
Time: 7:30am-5:00pm (June 3) 7:00am-5:00pm (June 4)  
Location: CSM campus, Golden  
Instructor: multiple guest speakers  
Tuition Fee: Free but you must pre-register

Does your everyday life depend on mining? Why is responsible mining key to a low carbon economy? How does mining impact our society and world? Explore these questions and more through exciting hands-on sessions, ready-to-use lesson plans, and fun field trips!

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

Sandi Sullivan, All About Mining/CMAEF  
719/588-0466 or [workshops@allaboutmining.org](mailto:workshops@allaboutmining.org)  
[www.allaboutmining.org](http://www.allaboutmining.org)

### CHARLESTON, SC AND ITS LOWCOUNTRY (K-12)

CT-2306-24D  
4 semester credit hours  
Dates: June 3-11  
Location: Charleston, SC  
Instructors: Danette Ulrich & Ali Dowd  
Registration Fee: \$2,450 (includes credit, lodging, ground transportation, entrance fees)

South Carolina has 187 miles of Atlantic coastline and numerous barrier islands known as the Lowcountry. Charleston is the crown jewel, one of America's most historic cities brimming with history, rich culture, and a passion for preservation and protection. It is a paradise for outdoor enthusiasts and eco-minded individuals. It is beautiful while its wildlife and environment are ecologically vulnerable.

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

Danette Ulrich  
303/419-3693 or [danetteu@gmail.com](mailto:danetteu@gmail.com)  
[Livingitlearningit.com](http://Livingitlearningit.com)

### THE EARTH SYSTEM: LEARN WITH GAMES (GR. 6-9)

CT-2409-24D  
0.5 semester credit hour  
Date: June 4  
Time: 9:00am-4:30pm  
Location: NCAR, Boulder  
Instructors: Melissa Rummel, Lisa Gardiner  
Tuition Fee: \$50 (**payable during workshop**)  
Registration Fee: \$30 (includes lunch)

Explore a selection of games to engage your students, add excitement to your classroom, and enhance learning about the Earth system through hands-on and collaborative activities. Join us to play games, brainstorm adaptations for differentiated instruction, and share resources suitable for the middle school science classroom.

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

Melissa Rummel, UCAR  
[mrummel@ucar.edu](mailto:mrummel@ucar.edu)  
<https://scied.ucar.edu/educators/teacher-professional-development>

### MINING FOR A STEAM EDUCATION (K-12)

CT-2205-24M  
1 semester credit hour  
Dates: June 6-July 11  
Time: online with 3 live google meet calls  
Instructor: multiple guest speakers  
Tuition Fee: Free but you must pre-register

Help your students discover the many STEAM concepts throughout the mining cycle. STEAM represents educational concepts that focus on Science, Technology, Engineering, Art, and Mathematics. STEAM-engaged students explore scientific concepts collaboratively through inquiry and problem-based learning methods throughout a creative process.

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

Sandi Sullivan, All About Mining/CMAEF  
719/588-0466 or [workshops@allaboutmining.org](mailto:workshops@allaboutmining.org)  
[www.allaboutmining.org](http://www.allaboutmining.org)

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

CT-1158-24M  
3 semester credit hours  
Dates: June 10-August 5  
Weekly asynchronous discussions and 3 synchronous meetings TBD  
Location: online  
Instructor: Cassandra Javner  
Course Coordinator: Michelle Ernst Modera  
Tuition Fee: \$149 (**payable during workshop**)  
Registration Fee: \$475

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:**

Michelle Ernst Modera, Beyond Benign  
[michelle\\_ernstmodera@beyondbenign.org](mailto:michelle_ernstmodera@beyondbenign.org)  
[www.beyondbenign.org/events](http://www.beyondbenign.org/events)

### ADVANCED GREEN CHEMISTRY: CONNECTIONS TO OUR WORLD (GR. 9-12)

CT-1623-24M  
3 semester credit hours  
Dates: June 10-August 5  
Weekly asynchronous discussions and 4 synchronous meetings June 10, June 24, July 8, Aug. 5 at 5:00pm MST  
Location: online  
Instructor: Annette Sebuyira  
Course Coordinator: Michelle Ernst Modera  
Tuition Fee: \$149 (**payable during workshop**)  
Registration Fee: \$475

Review and analyze Presidential Green Chemistry winning projects and deep dive into the 12 Green Chemistry Principles of practice through classroom pedagogy and procedures. Learn how to incorporate toxicology into your curriculum, delving into the application of green chemistry to student STEM activities and inquiry projects.

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

Michelle Ernst Modera, Beyond Benign  
[michelle\\_ernstmodera@beyondbenign.org](mailto:michelle_ernstmodera@beyondbenign.org)  
[www.beyondbenign.org/events](http://www.beyondbenign.org/events)

**LEADVILLE AND THE COLORADO MINERAL BELT (K-12)**

CT-2101-24D  
1 semester credit hour  
Dates & Times:  
8:00am, June 15 through 4:30pm, June 16  
Location: Leadville  
Instructors: Danette Ulrich & Ali Dowd  
Registration Fee: \$250 (includes credit, train trip, museum entrances)

Explore the history of Leadville and Twin Lakes during Colorado's gold and silver "booms." By 1879 silver mining was in full swing in Leadville, home to over 30,000 people. 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, fortunes were made for many famous people. Neighboring Twin Lakes was an important transportation hub between Leadville and Aspen. As gold played out and silver prices plummeted Leadville's economy faltered, mines closed, and unemployment rose. Today it maintains a vibrant community through its history and wealth of outdoor activities.

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

Danette Ulrich  
303/419-3693 or [danetteu@gmail.com](mailto:danetteu@gmail.com)  
[Livingitlearningit.com](http://Livingitlearningit.com)

**BONAIRE: CORAL REEF ENCHANTMENT (K-12)**

CT-2002-24D  
4 semester credit hours  
Dates: June 15-23  
Location: Ecuador  
Instructor: Melanie Phelps  
Tuition Fee: \$2,585 (includes lodging, ground transportation, entrance fees, credit; does not include airfare to Bonaire)

Coral reefs are among the world's most beautiful, most 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](mailto:melaniephe@aol.com)  
[www.coloradorivertrip.com](http://www.coloradorivertrip.com)

**REVOLUTIONIZING READING (K-8)**

CT-2022-24D  
1.5 semester credit hours  
Date: June 17-19  
Time: 8:00am-4:00pm  
Location: Hilton Gardens, Ft. Collins  
Instructor: Bri Luna  
Tuition Fee: \$95 (**payable during workshop**)  
Registration Fee: \$750 (includes course materials and book)

Gain an understanding of the pedagogy recommended by the National Reading Panel and current legislation to effectively teach reading. This course implements the

Orton Gillingham approach as it relates to phonemic awareness, phonics, vocabulary, fluency, and comprehension. You will understand, recognize, and remediate common reading deficits including dyslexia.

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

Bri Luna, Reading Rev  
970/217-1085 or [bri@readingrev.com](mailto:bri@readingrev.com)

**NORTH CONFLUENCE INSTITUTE (K-12)**

CT-2412-24M  
1.5 semester credit hours  
Dates: June 17-July 5 (online), June 25-27 (in person)  
Time: 8:30am-3:30pm  
Location: Poudre Learning Center, Greeley  
Instructor: Sami Wolniakowski  
Registration Fee: no charge but you must pre-register (includes lunch)

Explore the strains placed on water and crop land in the South Platte River Basin. Gain first-hand knowledge and an understanding of how farmers, ranchers, and others in the agriculture industry do their part to sustain our soil and water resources.

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

Tammy Rusch, CCWCD  
[trusch@ccwcd.org](mailto:trusch@ccwcd.org)  
[ccwcd.org/education/confluence\\_institute](http://ccwcd.org/education/confluence_institute)

**MANAGING CONTROVERSY: STRATEGIES FOR TEACHING ENVIRONMENTAL ISSUES & TOPICS (PREK-12)**

CT-2405-24M  
1 semester credit hour  
Dates: June 17-August 9  
Location: online  
Instructor: Lisa Eadens  
Tuition Fee: \$67 (**payable during workshop**)  
Registration Fee: no charge but you must pre-register

Understand and build skills in how to investigate and evaluate environmental issues and topics to your students. Explore how to effectively teach environmental issues and topics and start to develop your own classroom/program plans on environmental issues and topics.

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

Lisa Eadens, CAEE  
303/273-9527, [lisaeadens@caee.org](mailto:lisaeadens@caee.org)  
[caee.org/civircrm/event/info?id=505&reset=1](http://caee.org/civircrm/event/info?id=505&reset=1)

**TEACHING AND LEARNING OUTDOORS (PREK-12)**

CT-2407-24M  
1 semester credit hour  
Dates: June 17-August 9  
Location: online  
Instructor: Lisa Eadens  
Tuition Fee: \$67 (**payable during workshop**)  
Registration Fee: no charge but you must pre-register

Gain the knowledge, skills, tools and resources to take environmental learning outdoors. Through articles, videos, and reflective assignments, you will learn new strategies for successful outdoor learning including identifying outdoor learning opportunities, cultivating support for outdoor learning, managing students, using technology outside, and more.

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

Lisa Eadens, CAEE  
303/273-9527, [lisaeadens@caee.org](mailto:lisaeadens@caee.org)  
[caee.org/civicrm/event/info?id=508&reset=1](http://caee.org/civicrm/event/info?id=508&reset=1)

**CONNECTING ENVIRONMENTAL ED TO STATE EDUCATION STANDARDS (PREK-12)**

CT-2328-24M  
1 semester credit hour  
Dates: June 17-August 9  
Location: online  
Instructor: Lisa Eadens  
Tuition Fee: \$67 (**payable during workshop**)  
Registration Fee: \$75 CAEE members; \$125 non-members

Explore national standards in environmental education, 3-Dimensional Learning, which forms the framework for the Colorado Academic Standards. Learn to align environmental education programs and lessons with what students need to know and be able to do.

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

Lisa Eadens, CAEE  
303/273-9527, [lisaeadens@caee.org](mailto:lisaeadens@caee.org)  
[caee.org/civicrm/event/info?id=497](http://caee.org/civicrm/event/info?id=497)

**CLIMATE CHANGE LITERACY (PREK-12)**

CT-2406-24M  
0.5 semester credit hour  
Dates: June 17-August 9  
Location: online  
Instructor: Lisa Eadens  
Tuition Fee: \$52 (**payable during workshop**)  
Registration Fee: \$75 CAEE members; \$125 non-members

Designed to teach non-formal educators the basics of climate change and climate change communication strategies. Through readings, simulations and visualizations, you will engage with national Climate Literacy Principles, investigate how Earth's climate system works, how human energy use and carbon emissions affect Earth's climate, and more.

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

Lisa Eadens, CAEE  
303/273-9527, [lisaeadens@caee.org](mailto:lisaeadens@caee.org)  
[caee.org/civicrm/event/info?id=500&reset=1](http://caee.org/civicrm/event/info?id=500&reset=1)

**FOUNDATIONS OF ENVIRONMENTAL EDUCATION INSTRUCTION (PREK-12)**

CT-2408-24M  
1 semester credit hour  
Dates: June 17-August 9  
Location: online  
Instructor: Lisa Eadens  
Tuition Fee: \$67 (**payable during workshop**)  
Registration Fee: \$75 CAEE members; \$125 non-members

Designed for new and developing environmental educators who would like to build background knowledge in environmental education best practices and skills in selecting, adapting, and/or developing effective educational materials.

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

Lisa Eadens, CAEE  
303/273-9527, [lisaeadens@caee.org](mailto:lisaeadens@caee.org)  
[caee.org/civicrm/event/info?id=502](http://caee.org/civicrm/event/info?id=502)

**CLIMATE SCIENCE EVERYWHERE (K-5)**

CT-2410-24D  
0.5 semester credit hour  
Date: June 18  
Time: 9:00am-4:30pm  
Location: NCAR, Boulder  
Instructors: Melissa Rummel, Lisa Gardiner  
Tuition Fee: \$50 (**payable during workshop**)  
Registration Fee: \$30 (includes lunch)

Discover how to fit climate science and climate change with lessons that you already teach, to create an integrated climate unit. Learn about classroom activities that introduce elementary students to climate, why climate is changing, and how we can solve the problem.

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

Melissa Rummel, UCAR  
[mrummel@ucar.edu](mailto:mrummel@ucar.edu)  
<https://scied.ucar.edu/educators/teacher-professional-development>

**WASTEWATER AND AQUATIC BIOLOGY (K-12)**

CT-1082-24D  
0.5 semester credit hour  
Date: June 20  
Time: 8:00am-5:00pm  
Location: Metro Water Recovery, Denver  
Instructors: Steve Lundt, Jordan Parman  
Course Coordinator: Kelley Merritt  
Tuition Fee: no charge (you must pre-register)

Receive an overview of the wastewater treatment process at Metro Water Recovery and highlight the environmental benefits to the South Platte River. Tour the Robert W. Hite Treatment Facility and Metro's lab and participate in an activity along the river.

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

Kelley Merritt, Metro Water Recovery  
303/286-3455  
[kmerritt@metrowaterrecovery.com](mailto:kmerritt@metrowaterrecovery.com)

**ALL ABOUT MINING: LEADVILLE (K-12)**

CT-2305-24D  
1 semester credit hour  
Dates: June 20-21  
Time: 8:00am-6:00pm  
Location: Leadville  
Instructor: multiple guest speakers  
Tuition Fee: Free but you must pre-register

How important is mining to Leadville and our everyday lives? Is modern mining today really any better than mining in the past? Explore the top-rated National Mining Hall of Fame Museum and then tour the Climax Molybdenum Mine.

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

Sandi Sullivan, All About Mining/CMAEF  
719/588-0466 or [workshops@allaboutmining.org](mailto:workshops@allaboutmining.org)  
[www.allaboutmining.org](http://www.allaboutmining.org)

## TEACHING CLIMATE SCIENCE AND SOLUTIONS (GR. 6-12)

CT-2411-24D  
0.5 semester credit hour  
Date: June 25  
Time: 9:00am-4:30pm  
Location: NCAR, Boulder  
Instructors: Melissa Rummel, Lisa Gardiner  
Tuition Fee: \$50 (**payable during workshop**)  
Registration Fee: \$30 (includes lunch)

Explore a collection of educational resources that get middle and high school students learning about Earth's changing climate, the impacts of climate change, and climate solutions. All resources were developed at the UCAR Center for Science Education and are free to use.

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

Melissa Rummel, UCAR  
mrummel@ucar.edu  
<https://scied.ucar.edu/educators/teacher-professional-development>

## 5<sup>TH</sup> GRADE TEACHER WATER WORKSHOP

CT-0854-24D  
1 semester credit hour  
Dates: June 25-26  
Time: 8:00am-5:00pm  
Location: Aurora Water  
Tuition Fee: \$65 (**payable during workshop**)  
Registration Fee: \$50 (checks returned upon successful course completion)

Project WET (Water Education Today) is designed to provide you with an in-depth background to teach the 5<sup>th</sup> grade water unit "Where Does Our Clean Water Come From and Where Does it Go After We Make it Dirty?" Discover first-hand where our water comes from, how it's delivered to customers and what happens when it goes down the drain. Tour Aurora's water and wastewater treatment facilities and receive the Project WET curriculum guide. **CSM tuition will be paid by Aurora Water for teachers who teach in the City of Aurora.**

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

Natalie Brower-Kirton, 303/927-8564  
nbrower@auroragov.org

## SOUTH CONFLUENCE INSTITUTE (K-12)

CT-2412-24M  
1.5 semester credit hours  
Dates: July 1-19 (online), July 10-12 (in person)  
Time: 8:30am-3:30pm  
Location: Metro Water Recovery, Brighton  
Instructor: Mary Ellen Cannon  
Registration Fee: no charge but you must pre-register (includes lunch)

Explore the strains placed on water and crop land in the South Platte River Basin. Gain first-hand knowledge and an understanding of how farmers, ranchers, and others in the agriculture industry do their part to sustain our soil and water resources.

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

Tammy Rusch, CCWCD  
[trusch@ccwcd.org](mailto:trusch@ccwcd.org)  
[ccwcd.org/education/confluence\\_institute](http://ccwcd.org/education/confluence_institute)

## ECUADOR: AMAZON RAINFOREST & GALAPAGOS ISLANDS (K-12)

CT-2000-24M  
5 semester credit hours  
Dates: July 6-16  
Location: Ecuador  
Instructor: Melanie Phelps  
Tuition Fee: \$7,225 (includes lodging, ground transportation, entrance fees, credit and most meals; does not include airfare to Quito)

Soar over the Andes Mountains, gaze at unique cloud forest wildlife, then depart into the Amazon Rainforest where you will explore by riverboat on the Napo River. Snorkel and hike around the Galapagos Islands, home of diverse finches, tortoises, penguins, and hundreds of other species from the comfort of a live aboard small boat.

### 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)

## SUSTAINABLE SCIENCE (GR. 7-12)

CT-2026-24M  
1 semester credit hour  
Dates: July 8-29  
Weekly asynchronous discussions and 2 synchronous meetings on July 18 and July 25 at 8:00am MST  
Location: online  
Instructor: Erin Mayer  
Course Coordinator: Michelle Ernst Modera  
Tuition Fee: \$67 (**payable during workshop**)  
Registration Fee: \$150

This course will provide you an introduction to Green Chemistry and provide the skills and knowledge to integrate sustainability through chemistry in your classroom. By investigating how industry is applying sustainable science you will contextualize key science topics, such as ecosystem dynamics, matter and its interactions, and earth and human activity.

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

Michelle Ernst Modera, Beyond Benign  
[michelle\\_ernstmodera@beyondbenign.org](mailto:michelle_ernstmodera@beyondbenign.org)  
[www.beyondbenign.org/events](http://www.beyondbenign.org/events)

## FORESTS TO FAUCETS: AURORA'S WATER RESOURCES (K-12)

CT-0668-24M  
1.5 semester credit hours  
Dates: July 16-18  
Time: 8:00am-5:00pm  
Location: Aurora Water  
Tuition Fee: \$95 (**payable during workshop**)  
Registration Fee: \$50 (checks returned upon successful course completion)

Learn first-hand where your drinking water comes from. Explore our mountain watersheds, conduct water quality studies at Aurora Reservoir, tour the Aurora water wise garden, and visit a drinking water and wastewater treatment facility. Receive Project Learning Tree and WET (Water Education Today) curriculum guides and access to Aurora Water's innovative educational opportunities. **CSM tuition will be paid by Aurora Water for teachers who teach in the City of Aurora.**

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

Natalie Brower-Kirton, 303/927-8564  
nbrower@auroragov.org

**REVOLUTIONIZING READING: INTERMEDIATE  
STRUCTURED LITERACY (GR. 3-8)**

CT-2404-24M  
1 semester credit hour  
Date: July 22-23  
Time: 8:00am-4:00pm  
Location: Hilton Gardens, Ft. Collins  
Instructor: Bri Luna  
Tuition Fee: \$65 (**payable during workshop**)  
Registration Fee: \$500 (includes all course materials)

There's been a revolution in reading instruction; educators see the need for structured literacy instruction! However, the emphasis has been largely at the primary level. This course will give you the knowledge, systems, and tools to successfully teach literacy to intermediate students according to the science of reading.

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

Bri Luna, Reading Rev  
970/217-1085 or bri@readingrev.com

**FORESTS TO FAUCETS 2 (K-12)**

CT-1734-24M  
0.5 semester credit hour  
Date: July 23  
Time: 8:00am-5:00pm  
Location: Aurora Water  
Tuition Fee: \$50 (**payable during workshop**)  
Registration Fee: \$25 (checks returned upon successful course completion)

Created as a follow up to "Forests to Faucets," this workshop focuses on protecting our water by learning more about conservation, water pollution prevention, and climate change. Receive a Project WET (Water Education Today) curriculum guide and a Climate Resilience booklet along with access to Aurora Water's innovative educational resources. **CSM tuition will be paid by Aurora Water for teachers who teach in the City of Aurora.**

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

Viviana Zavala, 303/326-8879  
[vzavala@auroragov.org](mailto:vzavala@auroragov.org)

## Denver Museum of Nature & Science Course Offerings

### SENSE-MAKING BY DESIGN (GR. 3-8)

CT-2414-24F

3 semester credit hours

Dates: June 12-14 & Oct. 5 (in person), Sept. 2-Oct. 13 (online)

Time: June 12-14 & Oct. 5 (8am-3:30pm)

Location: Denver Museum of Nature & Science & online

Instructors: Patrick Brown, Tim Blesse

Course Coordinator: Tim Blesse, 303/370-8298, [teacherprograms@dmns.org](mailto:teacherprograms@dmns.org)

Registration Fee: \$350 (includes materials, food, credits)

\*\*10 Early Bird Scholarships are available\*\*

Learn why the sequence of your lessons and labs matter! Join us for a fun and interactive course about bringing conceptual coherence for learners to your lessons and labs. Designed as a complete guided tour for novice teachers, classroom veterans, curriculum specialists, methods course instructors, and informal educators. Interact with supportive peers as you develop your own practice of science instruction that promotes engagement as well as deep, long-lasting understanding for your students.

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

Denver Museum of Nature & Science  
303/370-6000 M-F, 9am-5pm  
[dmns.org/learn/teacher-professional-development/k-12-professional-development](http://dmns.org/learn/teacher-professional-development/k-12-professional-development)

### DEMYSTIFYING STEM: ENGINEERING (K-5)

CT-2314-24F

2 semester credit hours

Dates: June 20-22 (in person), Sept. 30-Nov. 3 (online)

Time: June 20-21 (8am-4pm) & June 22 (8am-12pm)

Location: Denver Museum of Nature & Science & online

Instructor: Tamera Sakotas, 303/370-8365, [teacherprograms@dmns.org](mailto:teacherprograms@dmns.org)

Registration Fee: \$300 (includes materials, food, credits)

Learn how teaching STEM goes hand-in-hand with literacy, and how inquiry-based lessons can support the development of 21<sup>st</sup> Century skills. Explore new platforms and simple ways to infuse Arts into your projects. In collaboration with CU Boulder, this course is your entry point into engaging and ready to implement creative teaching practices specifically for elementary classrooms.

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

Denver Museum of Nature & Science  
303/370-6000 M-F, 9am-5pm  
[dmns.org/learn/teacher-professional-development/k-12-professional-development](http://dmns.org/learn/teacher-professional-development/k-12-professional-development)

## Denver Zoo Course Offerings

### PROJECT BASED LEARNING: BOREAL TOAD

#### (K-12)

CT-2317

1 semester credit hour

Dates:

**Session I:** June 5-7

**Session II:** July 23-25

Time: 9:00am-3:30pm

Location: Denver Zoo

Instructors: Karen Hays, Emmy Peterson

Registration Fee: \$175 (includes breakfast, lunch, credit)

Solve a real-world problem in this toadally awesome workshop. Dive into project-based learning and hop away with techniques for exploring authentic conservation problems in your own classroom. Our boreal toad conservation project will be a jumping-off point for you to design your own teaching units.

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

Denver Zoo

720/337-1670, [dzeducation@denverzoo.org](mailto:dzeducation@denverzoo.org)

<https://denverzoo.org/project-based-learning-boreal-toad/>

### CAMP CONSERVATION (K-12)

CT-2315

1.5 semester credit hours

Dates:

**Session I:** June 12-14

**Session II:** June 26-28

**Session III:** July 17-19

Time: 8:30am-4:30pm

Locations: Denver Zoo and Daniels Park

Instructors: Karen Hays, Emmy Peterson

Registration Fee: \$195 (includes 2 breakfasts, lunches, credit)

This workshop combines camp nostalgia and real-world conservation learning, including a day at a local conservation site. Treat yourself to the WILDEST educator experience in Denver and walk away with new ideas and resources for your classroom.

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<https://denverzoo.org/camp-conservation/>

### PHENOMENA IN THE FIELD (K-12)

CT-2316

.5 semester credit hour

Dates:

**Session I:** June 18

**Session II:** June 21

**Session III:** July 11

**Session IV:** July 30

**Session V:** September 28

Time: 8:30am-4:30pm

Location: Daniels Park

Instructors: Karen Hays, Emmy Peterson

Registration Fee: \$75 (includes lunch and credit)

Spend the day at a Denver Zoo field conservation site working alongside Denver Zoo experts to conserve local habitats and connect with nature. Explore teaching phenomena through a conservation lens and walk away with ideas for real-world conservation challenges you can integrate into your classroom.

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720/337-1670, [dzeducation@denverzoo.org](mailto:dzeducation@denverzoo.org)

<https://denverzoo.org/phenomena-in-the-field/>

