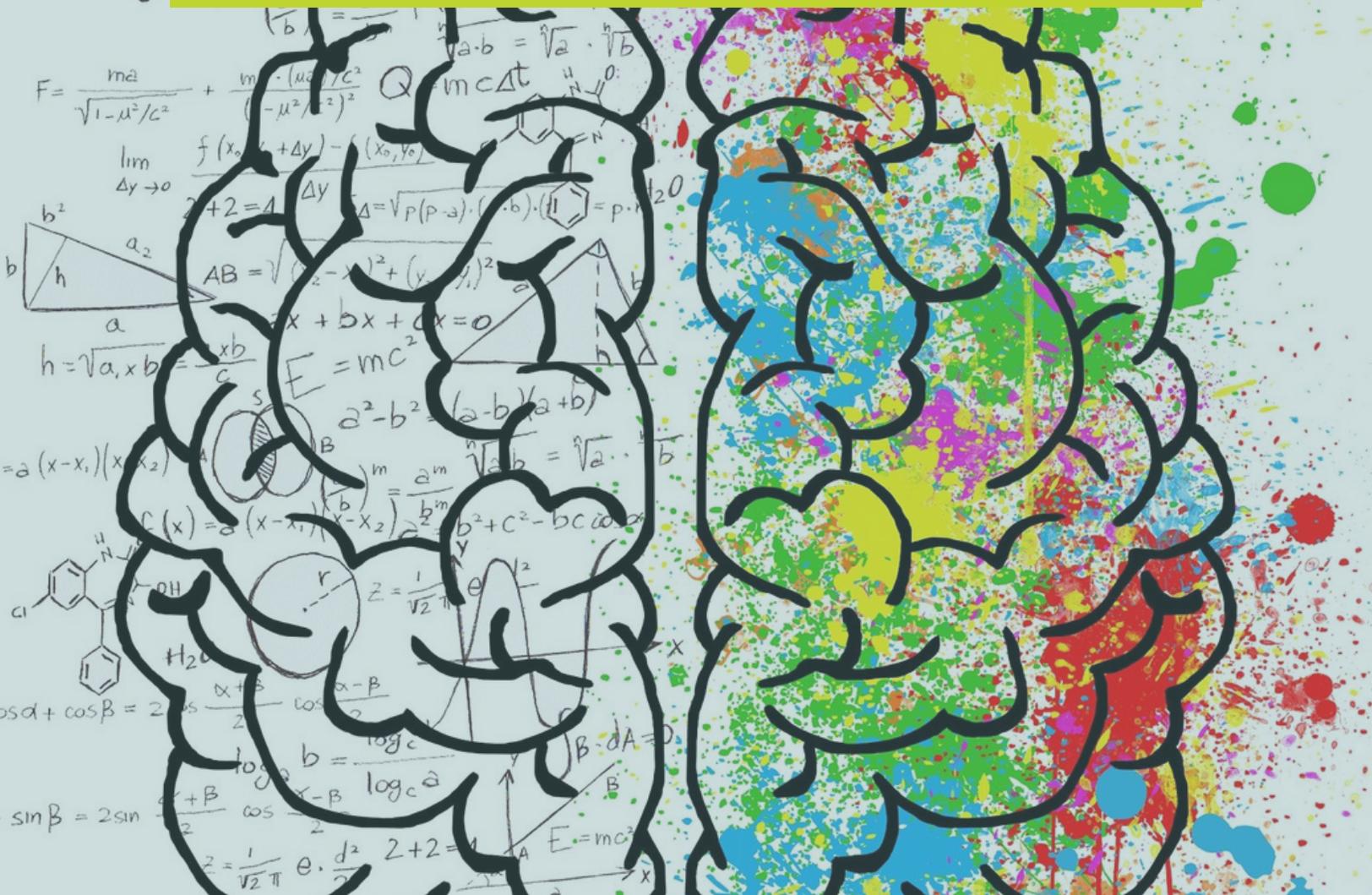


2nd Annual Mind & Brain Education Mini-Conference

Doors open at 7:00AM
October 1, 2022





EVENT SCHEDULE

Welcome & Keynote

THE SCIENCE & PRACTICE OF CLASSROOM
ATTENTION

8:00AM • MORGRIDGE FAMILY EXPLORATION
CENTER

Breakout Session 2

10:40AM • STUDIOS VARY

Breakout Session 3

1:20PM • STUDIOS VARY

Closing Remarks, Prizes & Conference Ends

3:45PM • MORGRIDGE
FAMILY EXPLORATION

CENTER

Sign In, Coffee & Treats

7:30AM • MORGRIDGE FAMILY
EXPLORATION CENTER

Breakout Session 1

9:10AM • STUDIOS VARY

Lunch

12:20PM • STUDIOS VARY

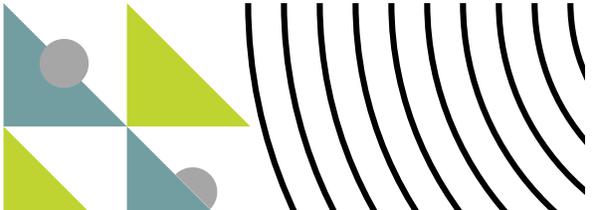
Final Keynote

BUILDING A SCIENCE OF TEACHING AND
LEARNING: ONE EDUCATOR'S JOURNEY

3:00PM • MORGRIDGE FAMILY EXPLORATION
CENTER

Guests Enjoy the Museum

4:00PM (MUSEUM CLOSES AT 5:00PM)

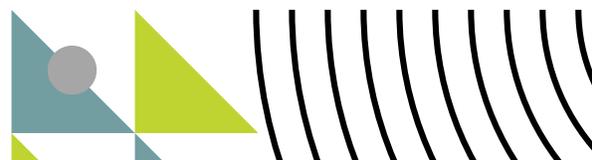




BREAKOUT SCHEDULE

Breakout Session 1	9:10 AM - 10:40 AM
<i>Payo</i> - Memory Matters	Studio 102
<i>Stanfield</i> - New School vs Old School Teaching: 5 Micro Strategies to Increase Engagement in the Classroom	Studio 103
<i>Bevill</i> - Five Things for Mental Health	Studio 106
<i>Blair</i> - At the Crossroads of SEL and Culturally Responsive Teaching	Studio 201
<i>Landry</i> - Brain Based Research You Can Use in Your Classroom	Studio 202
Breakout Session 2	10:50 AM - 12:20 PM
<i>Sherman</i> - Building Self-Efficacy in the Classroom*	Studio 102
<i>Cypers</i> - Understanding & Supporting Those Who Deal with Anxiety	Studio 103
<i>Park</i> - Creative & Meaningful Assessments for an Equitable Classroom	Studio 106
<i>Westwick</i> - Relationship Between Creative Thinking & Second Language Acquisition	Studio 201
<i>Davis</i> - Risk & Reward: Making sense of the teenage brain	Studio 202
LUNCH ON YOUR OWN	12:20 PM - 1:20 PM
Breakout Session 3	1:20 PM- 2:50 PM
<i>Sherman</i> - Building Self-Efficacy in the Classroom*	Studio 102
<i>DeBall</i> - Culturally Responsive Teaching & The Brain	Studio 103
<i>Blesse</i> - Understanding Working Memory: A hidden key to supporting all learners	Studio 106
<i>Herter</i> - Tips & Tricks to Cultivate Mindfulness Practices in Your Classroom on Monday	Studio 201
<i>Doom, Legette, and Fox</i> - Supporting Socioemotional Development for Middle & High School Students	Studio 202

*These sessions presented more than once



For Your Information

Lunch Options

Denver Museum of Nature & Science is the home of T-Rex Café, Grab & Go Deli, and Coffee Lab. Café offerings include vegetarian and vegan options and a variety of hot and ready-made foods. Snacks and prepackaged salads, sandwiches, and desserts can be found in the Grab & Go deli.

Guests are welcome to bring their own meal, or explore options in the area. If you choose to leave the museum, please make sure to return through the Security Sub Post and present your nametag upon entry.

Survey

Thank you for attending our Mini Conference! The Denver Museum of Nature & Science appreciates your feedback to improve future Teacher Professional Development events. Follow the QR code to complete the survey. This can also be reached at tinyurl.com/umxm39o



Optional Re-Licensure Credits

Optional re-licensure credit is available for this event. If you are not yet registered, but interested, please come sign up at the check-in table.

Important note: If you have already registered and paid for credit, you will need to do the following things in order to receive that credit.

A) **Before you depart** the museum today, you must: return the completed course credit form (in your packet) to the check-in table, initial in and out on the roster, and complete the online survey (see above link).

B) **By October 30,** Submit your completed implementation lesson plan to the folder located at tinyurl.com/ybd9p68e or the QR code in the "Presentation Resources" section

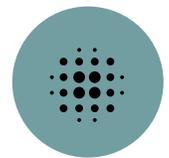
For Your Information

Nametags

Please wear your nametag at all times. It allows Museum staff to know you are participating in this event, as well as provides access in and out of the building.

Presentation Resources

All files and presentations from today can be found by following this QR code or at tinyurl.com/ybd9p68e.



SCHEDULE YOUR DAY

SESSION	PRESENTER	ROOM
#1 9:10 - 10:40 am		
#2 10:50 AM - 12:20 PM		
#3 1:20 - 2:50 PM		

AM



THE SCIENCE & PRACTICE OF CLASSROOM ATTENTION

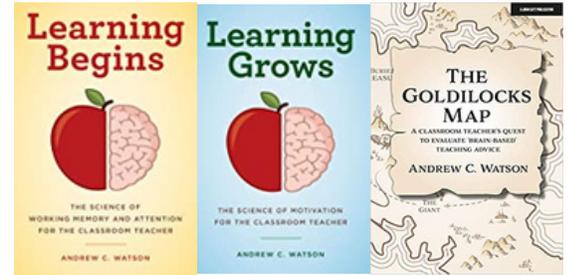
ANDREW WATSON

Educator, Author, and Founder & President / Translate the Brain

As teachers, we've all asked this urgent question: Why don't my students just pay attention? Research from psychology and neuroscience suggests an unexpected answer. Rather than think of attention as a unified mental process, we should instead see it as a combination of three sub-processes - alertness, orienting, and executive attention. With this three-part framework in mind, we can refocus our classroom work on practical goals.

- How can we moderate students' alertness?
- How can we help them orient to the correct stimuli?
- How can we promote executive attention?

These fresh questions easily lead to powerful teaching strategies. This lively and interactive presentation begins with research, and concludes with practical strategies that make learning easier and teaching more effective.



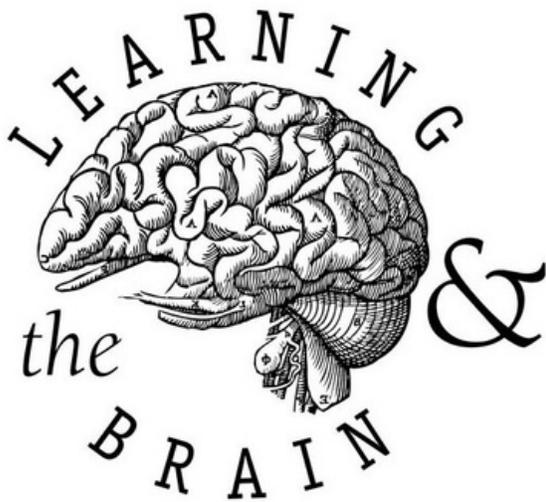
Learning Begins, written by a teacher for teachers, translates current brain research into practical classroom strategies.

Written in a lively and approachable voice, based on years of classroom experience and a decade of scientific study, *Learning Begins* makes educational psychology and neuroscience clear and useful in schools and classrooms.

Learning Grows explores the fascinating and useful world of student motivation. Written for teachers - and everyone interested in teaching and learning - *Learning Grows* helps classrooms flourish by fostering students' intrinsic motivation.

The Goldilocks Map : In the last 20 years, the cognitive sciences have revealed fresh, surprising, and useful insights to how and why our students learn. To use this research most wisely, teachers must find our way to an elusive Goldilocks Zone. Instead of resisting all research-based guidance, we should be ready to take it to heart - even when it challenges both our training and conventional wisdom.

Keynotes will be held in the Morgridge Family Science Atrium (see maps on page 14 for more details)



Shawna Angelo is the recipient of the 2021 Learning and the Brain award

Building a Science of Teaching and Learning: One educator's journey will focus on Cognitive Psychology, K-12 education and the practical application of learning sciences and education research



PM

BUILDING A SCIENCE OF TEACHING AND LEARNING: ONE EDUCATOR'S JOURNEY

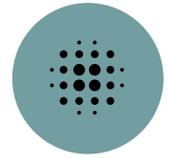
SHAWNA ANGELO

Science of Teaching and Learning Lead / Delta County School District

Translating research to science of teaching for the classroom can feel quite rocky if not impossible at times. There have been so many scientific advancements on how the brain learns, yet so many questions on how to apply it in the classroom remain. In "Building a Science of Teaching: One educator's journey" we will share both the challenges and excitements we've encountered as we attempt to literally build the bridge between research and practice. How can we "work smarter and not harder" using the natural efficiencies of how the brain learns to support our learning journeys in K-12 public classrooms?

BREAKOUT SESSION 1

PRESENTERS (9:10 - 10:40 AM)



FIVE THINGS FOR MENTAL HEALTH

KIMBERLY BEVILL

Gray Matters

You cannot wait until symptoms of poor mental health are prominent. The only factor that matters for mental health is pre-emptive protection. "Five Things for Mental Health" will help you identify which activities, words and food (yes, food) impact men and women, boys and girls, what threatens mental health, and how to regain balance. This session will share science based strategies to bring your balance back and reset, even upgrade, your connections to others

Focus: Neuroscience, Psychology, Social-Emotional Well Being



AT THE CROSSROADS OF SEL AND CULTURALLY RESPONSIVE TEACHING

DENA BLAIR

STEAM Educator, Co-Facilitator of Indigenous People of APS

Zaretta Hammond once said, "Culture...is the software for the brain's hardware." Join me as we explore what happens when culture (the software) and neuroscience (the hardware) intersect in the classroom.

Focus: Cognitive Psychology, Neuroscience, Elementary, Secondary, K-12, Social-Emotional Well Being



UNDERSTANDING & SUPPORTING THOSE WHO DEAL WITH ANXIETY

SCOTT CYPERS PH.D.

Director of Stress & Anxiety Programs / University of Colorado Anschutz

"Understanding and Supporting Those Who Deal with Anxiety" will highlight a non-stigmatizing way to understand anxiety in the brain and its impact on a person's life. This presentation will also focus on concrete tools to help those who deal with anxiety and help change neuro pathways.

Focus: Social-Emotional Well Being

SESSION 1
(9:10 - 10:40 AM)



**BRAIN BASED
RESEARCH YOU
CAN USE IN YOUR
CLASSROOM**

KIRSTEN LANDRY

*Faculty Upper School Science Department / Kent
Denver*

Neuroscience and education are teaming up to create more efficient and longer lasting learning. "Brain Based Research You Can Use in Your Classroom" will dive into the research and help you develop tools to use in your practice.

Focus: Cognitive Psychology, Neuroscience, Psychology, Elementary, Secondary, K-12, Educational Research, Social-Emotional Well Being



**MEMORY
MATTERS**

ROBERT PAYO

*Director of Youth Education / Denver Urban Gardens
and formerly with DMNS*

As educators, we're in the business of helping learners retain what they've learned. This session will start out with a basic understanding of what we know about the brain and memory. From there, we'll explore strategies for retention from a brain-based perspective with the focus on gaining more insight on using these strategies more intentionally and effectively.

Focus: Cognitive Psychology, Neuroscience, Psychology, K-12, Educational Research,

SESSION 2
(10:50 AM - 12:20 PM)



**RISK & REWARD:
MAKING SENSE
OF THE TEENAGE
BRAIN**

BRANDON DAVIS

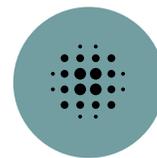
*Teacher Programs Consultant / Denver Museum of
Nature & Science*

Many myths surround the teenage brain. We often ascribe the confounding behavior we witness to hormones or a lack of thinking. However, new scientific findings have emerged in the last decade that give us deeper insight into what is actually happening in the mind of teenagers. In "Risk & Reward: Making sense of the teenage brain," we will dive into this research, bust some myths, and explore practical strategies to help mitigate the riskiness of the teenage brain while unleashing its rewarding potential.

Focus: Cognitive Psychology, Neuroscience, Psychology, Elementary, Secondary, K-12, Educational Research, Social-Emotional Well Being

BREAKOUT SESSION 2

PRESENTERS (10:50 AM - 12:20 PM)



CREATIVE & MEANINGFUL ASSESSMENTS FOR AN EQUITABLE CLASSROOM

DR. MARY FRAN PARK

Science Educator and Program Mentor / Kent Denver & Johns Hopkins University

Creative and meaningful assessments are not a new concept in education. But when considering the alignment of DEIB (diversity, equity, inclusion, and belonging) goals and education, teachers need to investigate how they are assessing their students. Do traditional assessments (quizzes and tests) really tell you what you want to know about your students' learning? Or are there better and more equitable ways to assess your students' understanding of the material presented in your class? Come join this session to learn why it is important for us to develop creative and meaningful assessments for deep learning and more equitable classrooms.

Focus: Cognitive Psychology, Secondary, DEIB (Diversity, Equity, Inclusion, and Belonging)



NEW SCHOOL VS OLD SCHOOL TEACHING: 5 MICRO STRATEGIES TO INCREASE ENGAGEMENT IN THE CLASSROOM

BRAD STANFIELD

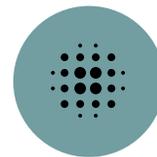
Instructional Coach / Delta County School District 50J

Are you a teacher that puts a lot of time and effort into your lessons only to have students not be engaged or miss the whole point? In this workshop, you will get micro strategies based on real-world experiences that easily apply to your classroom. We will be exploring the difference between old school and new school teaching, focusing on simple ways to shift the workload from the teacher to the student.

Focus: Elementary, K-12

BREAKOUT SESSION 2

PRESENTERS (10:50 AM - 12:20 PM)



BUILDING SELF-EFFICACY IN THE CLASSROOM

RAQUEL SHERMAN

Clinical Mental Health Counselor in training, Retired STEM Educator / Student of Colorado State University

Do you want to help your students feel successful, competent, and capable of taking on life's challenges? Of course you do! You wouldn't be here otherwise! In this interactive session you will learn about a foundational element of your students' current and future success: self-efficacy. In order to take on life's many ups and downs, we must believe that we are capable of doing so. And we, as educators, have the power and privilege to influence this in our students' lives. Join us at "Building Self-Efficacy in the Classroom" to learn more about the psychological research behind self-efficacy, why it's so important, and how to prioritize it in your classroom. Your students will thank you for it!

Focus: Psychology, K-12, Social-Emotional Well Being



RELATIONSHIP BETWEEN CREATIVE THINKING & SECOND LANGUAGE ACQUISITION

LA RELACIÓN ENTRE EL RAZONAMIENTO CREATIVO & LA ADQUISICIÓN DE UN SEGUNDO IDIOMA

ANDREA WESTWICK

Kindergarten Teacher and Teacher Development • Desarrollo para docentes y maestros de kindergarten / Global Village Academy North

This research proposal considers it important to address the concept of creativity and its relationship with the acquisition of Spanish as a second language, based on theoretical constructs that support some relationships between these two variables. • Esta propuesta de investigación analiza la importancia de examinar el concepto de creatividad y su relación con la adquisición del español como segunda lengua, según los marcos teóricos que sustentan algunos vínculos entre estas dos variables.

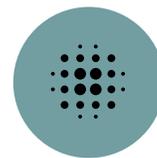
**This session is presented in Spanish • Esta sesión se presenta en español **

Focus: Neurophysiology and Education

Enfoque: La neurofisiología y la educación

BREAKOUT SESSION 3

PRESENTERS (1:20 - 2:50 PM)



UNDERSTANDING WORKING MEMORY: A HIDDEN KEY TO SUPPORTING ALL LEARNERS

TIM BLESSE

Teacher Programs Consultant / Denver Museum of Nature & Science

Engage in a session of learning about Working Memory, a “make or break” component of every learning experience that takes place in your classroom and yet almost no teacher training programs addresses it! At the end of this workshop, you will be able to recognize working memory issues when they arise in your classroom and diagnose the nature of the issue. You will walk away with specific strategies that support all learners in your classroom and yet require little or no lesson planning.

Focus: Cognitive Psychology, Neuroscience, Secondary, K-12, Educational Research



CULTURALLY RESPONSIVE TEACHING & THE BRAIN

ADRIENNE DEBALL

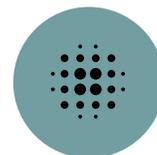
Science Coordinator, 7th Grade Science Teacher; AVID Coordinator & Teacher / West Middle School CCSD

"Culturally Responsive Teaching & The Brain" will promote authentic engagement & rigor among culturally & linguistically diverse students while expanding our knowledge about how all students learn using neuroscience. Additionally, we will advance our ability to improve our school culture while fostering a love of learning.

Focus: Neuroscience, K-12, Educational Research, Social-Emotional Well Being

BREAKOUT SESSION 3

PRESENTERS (1:20 - 2:50 PM)



SUPPORTING SOCIOEMOTIONAL DEVELOPMENT FOR MIDDLE & HIGH SCHOOL STUDENTS

JENA DOOM WITH KAMILAH LEGETTE AND KATHRYN FOX

Assistant Professor, Department of Psychology / University of Denver

A panel of psychology professors from the University of Denver will present evidence-based information on supporting socioemotional development in schools for middle and high school students. Dr. Legette will present on culturally responsive-teacher practices, restorative justice for discipline in schools, and fostering a positive school climate. Dr. Fox will present on best practices for suicide risk assessment in schools while maximizing student autonomy. Dr. Doom will present on the COVID-19 pandemic's effect on student emotional well-being, including a demonstration of free, brief, online interventions to improve student mental health in schools. All presenters will incorporate specific needs and recommendations for working with minoritized students (race, socioeconomic status, LGBTQ+). Each of the presenters will provide resources for use in classrooms and will have an interactive component that allows attendees to practice skills they are learning.

Focus: Psychology, Secondary, Educational Research, Social-Emotional Well Being



TIPS AND TRICKS TO CULTIVATE MINDFULNESS PRACTICES IN YOUR CLASSROOM ON MONDAY

KATE HERTER

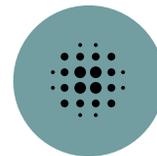
Science Teacher / Westminster High School

Cultivating mindfulness in the classroom has both physical and psychological benefits, including increased concentration and engagement and an improvement in self-awareness and self-esteem. Leave this session with a variety of ways to incorporate mindfulness into your classroom instruction without losing key instructional time!

Focus: K-12, Social-Emotional Well Being

BREAKOUT SESSION 3

PRESENTERS (1:20 - 2:50 PM)



BUILDING SELF-EFFICACY IN THE CLASSROOM

RAQUEL SHERMAN

Clinical Mental Health Counselor in training, Retired STEM Educator / Student of Colorado State University

Do you want to help your students feel successful, competent, and capable of taking on life's challenges? Of course you do! You wouldn't be here otherwise! In this interactive session you will learn about a foundational element of your students' current and future success: self-efficacy. In order to take on life's many ups and downs, we must believe that we are capable of doing so. And we, as educators, have the power and privilege to influence this in our students' lives. Join us at "Building Self-Efficacy in the Classroom" to learn more about the psychological research behind self-efficacy, why it's so important, and how to prioritize it in your classroom. Your students will thank you for it!

Focus: Psychology, K-12, Social-Emotional Well Being

Hybrid Course - The Social-Emotional Brain: Harnessing humanity to reach common goals

Date and Time

In-Person: Jan 7 & 21, 2023 (8am-3:30pm), Feb 4, 2023 (9am-12pm)

On-Line (Asynchronous):

Jan 9-Feb 5, 2023

Three Weekly Implementation Assignments and Discussion Forum (Approx. 2-3 hours/week for 3 weeks)

What does the science of learning teach us about emotion regulation, motivation, belonging, and agency? What makes for deeply satisfying learning experiences? How can we utilize insights from field-tested mind and brain research to improve classroom equity and help our students to own their learning? This course will equip you with tools that you can immediately implement in your classroom, as well as offer opportunities to interact with and learn from both your peers and experts. Come join us for this edifying educational experience! **Registration opening soon**

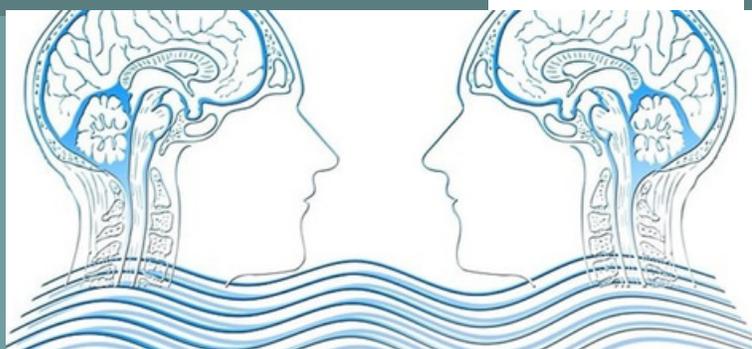
COST: \$300 (includes: food, book, prizes, tuition, on-line instructor feedback and presenters)

CREDIT: 2.0 Graduate level relicensure credits (included in registration costs)

SHORT ON TIME & ENERGY?

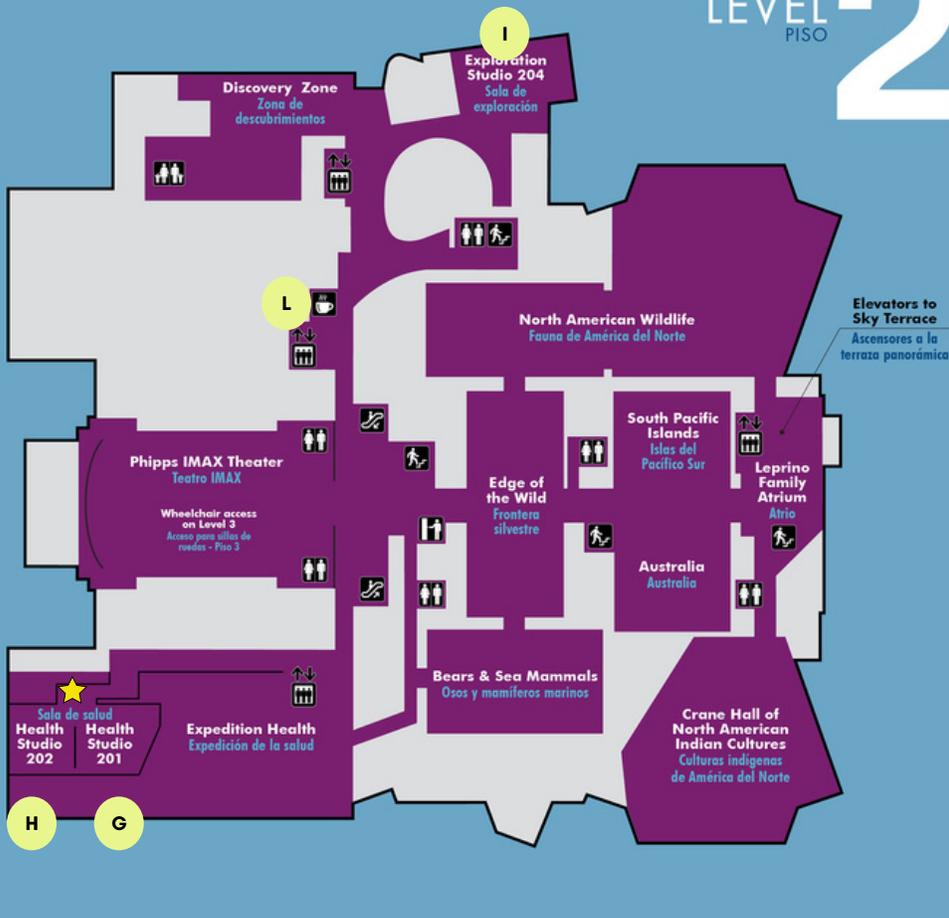
No worries! If you are too busy to do the asynchronous on-line portion of the course and/or are not interested in credit, then just join us for as many of the face-to-face sessions as you would like and receive a certificate of contact hours completed.

For more, visit us at: dmns.org/tpd



LOGISTICS

- A: Arrival & Departure
- B: Check-in/Credit Drop-off
- C: Coffee and Breakfast treats
- D: Exploration Studio 102
- E: Exploration Studio 103
- F: Exploration Studio 106
- G: Health Studio 201
- H: Health Studio 202
- I: Exploration Studio 204
- J: T-Rex Deli
- K: T-Rex Cafe
- L: Coffee Lab



Restrooms, Caregiver's Room, & Drinking Fountain

For your convenience, the nearest locations of the following amenities have been highlighted on the map.

Restrooms and drinking fountains - ★

Caregiver's room - ♥



K-12 Professional Development

Bring science to life in your classroom! Find out more about the science of learning, strengthen your expertise, and learn to integrate hands-on science activities into your classroom more effectively. Our workshops & courses aim to be: active, joyful, evidence-based, & practical. Offered by us OR by your group, on-site, off-site, or virtual.

Teacher Perks

We offer free general Museum admission to any licensed Colorado K-12 educator. Proof of eligibility required –A valid staff ID.

Teachers also receive a discount on all memberships, including Family Memberships, if they present their school IDs



Virtual Science Academy

Virtual Science Academy offers award-winning interactive experiences that bring the best of the Museum directly to you. Make classroom life easier by presenting content in line with school curriculum and NGSS.

Scientists in Action

During these free, 45 minute Q&A sessions, scientists demonstrate research techniques, share new discoveries, demystify the scientific process, and open a window into science careers.

Recommended for Grades 4-12, all ages welcome



Curiosity Kits

From the Museum right to your doorstep! We've got everything covered—we will deliver an activity box filled with imaginative, hands-on activities, complete with all the tools you'll need. It's simple: Just choose the theme, arrival date, and number of learners, and voilà! A fully curated experience is yours to discover.

Wonder Workshops

Let the Denver Museum of Nature & Science come to you! Our magnificent Museum educators will transform your classroom and take your adventurers on an unforgettable journey. This 45-minute program will fuel your students' passion and curiosity for nature and science. We will bring everything necessary to make this a meaningful and memorable educational experience.



Field Trip Adventures

If a fully planned and guided day sounds like a dream come true, let our Field Trip Adventures do the work by maximizing your fun with activities designed to align with Colorado Academic Standards. Choose from one of the preplanned, 3.5 hour experiences, and we will provide you with a detailed itinerary.

Overnight Adventures

Overnight Adventures are 6 p.m. – 9a.m. Enjoy an IMAX film, Planetarium show, special facilitated programs and explore your favorite exhibits after dark. (Grades 3-6)

Design Your Own Adventure

Feeling creative? This free option allows you to plan your own adventure at the Museum. Curate your trip to meet your group's needs

Bus Fuel Fund

The Bus Fuel Fund is available upon request for scholarship-eligible groups to help offset the cost of transportation to the Museum for a field trip.



Ready for more? Follow the QR code or go to learn.dmns.org to plan your visit today. Booking now '22-'23

