All programs are led by museum educators and employ hands-on activities to engage and educate. Discovery Lab’s curricula is designed to complement Oklahoma Academic Standards and use open-ended facilitation techniques.

### CLASS LISTING OVERVIEW

<table>
<thead>
<tr>
<th>CLASS TITLE</th>
<th>STEM CURRICULUM</th>
<th>HEALTH &amp; WELLNESS CURRICULUM</th>
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See our series options for Discovery Lab STEM and Health & Wellness curricula taught in an 8-week, progressive series. Classes are limited to 27 students per class. Discovery Lab will charge an additional $.88 per mile for outreach classes beyond 50 miles round trip from the museum.
STEM CLASSES
Cost per class: $125

Bubble Science
Explore the rainbow of colors and count the bubbles you can make. Get your hands messy while performing simple experiments, making predictions, and investigating properties and formations.

Groovin’ Gravity
Discover information about heavy and light objects. Communicate and describe your observations about how objects fall. Use words to compare objects according to length, size, weight, position, and location.

Shape Shifting
Shapes are important in the environment and in architecture. Create circles, squares, rectangles, and triangles, transform them to create new shapes, and learn about how these shapes make up the world around us.

Sick Science
What are germs and viruses and how do they spread? Learn about the things that make us sick and how our bodies fight infections by asking questions, making predictions, and communicating observations.

Smell This
Tiny science has never smelled so good! Explore the nano world of science, developing awareness of sensory attributes and using sense of smell to experience science that is too small to see.

Sound Science
Waves and vibrations and sounds, oh my! Create an instrument from recycled material, demonstrate how sound is created, and explore causes and effects of the waves and vibrations around us.

Storm Chasers
Why does Oklahoma have such wicked weather? Observe and participate in hands-on activities to develop an awareness of daily weather patterns in each of the four seasons and help you prepare for storms.

Staying Alive
Play games to learn what plants and animals need for survival and then create your own plant starter kit so you can continue the learning at home or school.

To book a museum class or outreach program, please contact program sales at reservations@tulsachildrensmuseum.org or 539-664-5525.
HEALTH & WELLNESS CLASSES
Cost per class: $100

Animal Adventure
Students take an imaginary trek through the jungle, pretending to be explorers on a grand animal adventure. After their journey, students reflect on their trip with a short story and, to cool off, end the class with butterfly breathing.

Busy Bodies
Students learn the basics of anatomy by exploring it with their own bodies through movement and play. Moving through the body systems, students exercise their muscles, listen to their hearts with stethoscopes, test their lung capacity, and more.

Creating Community
Students work in partnerships, on teams, and together as a community to practice effective communication and collaboration skills. With an emphasis on listening to others and celebrating differences, students develop a sense of responsibility as peacekeepers who desire to take care of their local communities and do what they can to help planet Earth.

Exploring Emotions
Students cultivate their emotional intelligence through games and activities that encourage discussion about feelings and how to appropriately express them. Digging into anger, fear, anxiety, sadness, grief, exhaustion, and excitement, students learn ways to manage the emotional ups and downs of childhood.

Mindful Moves
Students study the structure and function of their brain while developing their cognitive capabilities. Through fun games, students practice awareness of self and others, self-control and regulation, focus and discipline, and how to find energetic balance.

To book a museum class or outreach program, please contact program sales at reservations@tulsachildrensmuseum.org or 918-664-5525.
STEM CLASSES
Cost per class: $125

Elephant Toothpaste
Chemical reactions get foamy with this hot (exothermic) reaction. Feel the heat and see the bubbles as chemicals react and the elephant toothpaste expands.

Geometric Bubbles
Geometry has never been so up in the air! Explore three-dimensional shapes, learn about the radius and diameter of a circle, and recognize how to find them with a bubble.

Shape Shifting
Shapes are important in the environment and in architecture. Build different kinds of polygons and, transform three-dimensional shapes such as cubes, cones, cylinders and spheres. Shift your structures to make acute, right, and obtuse angles. Learn about how all these shapes make up the world around us!

Sound Science
Waves and vibrations and sounds, oh my! Create an instrument from recycled material, demonstrate how sound is created, and explore how waves and vibrations affect how we hear the world around us.

Squishy Circuits
Can you tell the difference between a conductor and an insulator? Investigate and experiment with different circuit configurations to power LED bulbs and motors in this powerful class.

The Nervous System
Become a neuron, test your reflexes, and more in this thought-provoking lesson. Learn how information is sent throughout the body with experimentation and hands-on activities.

Recycle This
Being a responsible recycler is important. De-code recyclable plastics and develop possible solutions to reduce the human impact on the earth. Find out where all the trash goes while learning what “biodegradable” and “degradation” means and how science makes it happen.

Trash Bots
Build a simple circuit and see recycled materials transform into wiggly, jiggly robots! Investigate the effects of balance and challenge classmates to robot races.

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HEALTH & WELLNESS CLASSES
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Students learn the basics of anatomy by exploring their own bodies through movement and play. Moving through the body systems, students exercise their muscles, listen to their hearts with stethoscopes, test their lung capacity, and more.

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Fearless Feats
Students build confidence and courage through challenging tasks that test their balance and acrobatic skill. Within a structure of safety and care, students encourage each other to try new things, from handstands to giving a presentation.

Mindful Moves
Students study the structure and function of their brain while developing their cognitive capabilities. Through fun games, students practice awareness of self and others, self-control and regulation, focus and discipline, and how to find energetic balance.

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STEM CLASSES
Cost per class: $125

Building Bridges
Did you know there are four types of bridges? Teams will build a bridge, test if designs are engineered to meet measurement and weight requirements, and solve problems to improve their results.

Canister Rockets
A chemical reaction creates an explosive good time! Mix powder and liquid to create a new substance with different properties. Learn what makes a powder and a liquid turn into an explosive chemical reaction.

Discover DNA
Learn how cells in our body contain a copy of our DNA. Build a model of DNA and use a simple method to isolate your own DNA.

Elephant Toothpaste
Physical and chemical reactions get foamy with elephant-sized, exothermic reactions. Play with molecules and turn hydrogen peroxide into water and gas. Investigate what happens when substances combine—will they form a new substance?

Pipelines
Moving liquid from one place to another is not as simple as it sounds. Construct a pipeline that successfully transfers liquid and use tools to measure lengths and create angles to improve your pipeline.

Trash Bots
Build a simple circuit and see recycled materials transform into wiggly, jiggly robots! Investigate the effects of balance and challenge classmates to robot races.

Earth and Beyond
Do you ever wonder what is in our solar system? Discover how much empty space is out there and explore why “our star” is so bright and why we have night.

Water Rules
Water is wonderful and refreshing, but did you know there’s a lot of science behind H₂O? Analyze the structure and properties of water and get your hands wet testing how water surface tension can be formed and broken.

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HEALTH & WELLNESS CLASSES
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Exploring Emotions
Students cultivate their emotional intelligence through games and activities that encourage discussion about feelings and how to appropriately express them. Digging into anger, fear, anxiety, sadness, grief, exhaustion, and excitement, students learn ways to manage the emotional ups and downs of childhood.

Testing Tools
Students and teachers learn research-based tools and techniques to relieve test anxiety. Through cross-lateral movements that integrate both halves of the brain, games that strengthen focus, and breathing practices that induce calm, students gain practical methods to implement at school and home to healthfully prepare for a test.

Mindful Moves
Students study the structure and function of their brain while developing their cognitive capabilities. Through fun games, students practice awareness of self and others, self-control and regulation, focus and discipline, and how to find energetic balance.

To book a museum class or outreach program, please contact program sales at reservations@tulsachildrensmuseum.org or 539-664-5525.
Discovery Lab series programs offer STEM and Health & Wellness curriculum over eight one-hour classes. Series classes can be delivered in single or multiple units, during the school day or after school, to complete a semester or to support a specific educational objective. Our STEM curriculum is designed for grades 1-6 and Health & Wellness for grades PreK-6.

All series classes are built around Discovery Lab’s Play2Learn philosophy featuring inquiry-based, meaningful play to complement and supplement classroom curriculum.

To book, contact us at 539-664-5525 today!
Series Cost: $600

**GRADES 1 - 3**

**Coding Science**
- How Computers Think
- BotLogic
- Pseudocode & Code Blocks
- Intro to Code.org
- Learning Algorithms
- Repeat & If Then Commands
- Creating an Animation

**Circuits Situations**
- Circuit Block Basics
- Squishy Circuit
- Paper Circuits
- Homo Polar Motors
- Make a Battery
- Turbines & Pin Wheels
- Robot Creations
- Make it Move

**Chemistry**
- Lava Lamps & Canister Rockets
- Polymer Beads & Worms
- Popping Corn
- Bubbles
- Smell This
- Light Science
- Tale of 2 Slimes
- Liquid or Solid/Oobleck

**Engineering**
- Science of Shapes
- What to Build
- Paper Construction
- Magnetic Sculptures
- Linkages
- Flying Machines
- 3 Little Pig Challenge: Straws & Sticks
- 3 Little Pig Challenge: LEGO Bricks

**GRADES 4 - 6**

**Coding Science**
- Star Wars: Building A Galaxy with Code
- Flappy Code
- Intro to Scratch
- Costumes vs. Sprites
- Drawing with Scratch
-Simple Game
-Makey Makey Exploration
-Catch Up and Build

**Motion Commotion**
- Turbines
- Simple Machines
- Extreme Machines
- Cardboard Arm
- Grab Something
- Kaleidoscope
- Linkages
- Trebuchets

**Theme Park Science**
- Design a Park
- Circuitry
- Bumper Bots
- Draft a Ferris Wheel
- Ferris Wheel Construction
- Draft a Roller Coaster
- Roller Coaster Engineering
- Roller Coaster Construction

**City Engineering**
- Design a City
- Shape Shifting
- Digital Design
- Skyscrapers
- Bridges
- Pipelines
- Electricity
- Construction Work

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Series Cost: $600

**PRE-K - GRADE 3**

**Busy Bodies**
- Introduction
- Skeletal System
- Muscular System
- Cardiovascular System
- Digestive System
- Respiratory System
- Nervous System
- Food for the Body

**Exercising Mental Capacities**
- Introduction
- Amazing Brains
- Brain Integration
- Cultivating Awareness
- Self-Control & Regulation
- Focus & Discipline
- Energize & Calm
- Finding Balance

**Exploring Emotional Intelligence**
- Introduction
- Anger
- Fear
- Anxiety
- Sadness
- Grief
- Exhaustion
- Excitement

**Developing Social Consciousness**
- Introduction
- Listening to Others
- Partner Work
- Teamwork
- Creating Community
- Celebrating Difference
- Peacekeeping
- Taking Care of Earth

**GRADES 4 – 6**

**Moving Physical Bodies**
- Introduction
- Skeletal System
- Muscular System
- Cardiovascular System
- Digestive System
- Respiratory System
- Nervous System
- Food for the Body

**Exercising Mental Capacities**
- Introduction
- Amazing Brains
- Brain Integration
- Cultivating Awareness
- Self-Control & Regulation
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