

Outreaches are 45 minutes long.

The maximum number of students per session is 25. Additional students are \$7.20 each.

Pricing is \$180.00 per one 45 minute session for up to 25 students.

There will be a mileage charge for all outreaches.

Some classes have a supply fee, those classes and fees are noted below. (Liquid Nitrogen & Dry Ice are \$55 each and Optical Illusions is \$15 per class.

If more than one session is booked in one day they must be at least 15 minutes apart, but no more than one hour apart.

We can do up to 4 sessions in one day with a break in the middle.

An invoice will be created upon booking and an invoice will be sent with payment due upon receipt of the invoice.

Activity Choices for Field Trips or Outreaches

Rosie Revere: Engineer

Learn about the science of engineering through an engaging story and hands-on engineering project. Students build their own take-home flying machine and get to test and improve its performance.

Program length: 35 – 45 minutes **Best for learners**: Kindergarten – 2nd grade

Engineering Mission

Following the engineering process, students design, build, test, evaluate, and redesign a shockabsorbing system that protects either two marshmallow "astronauts" or a ROVER while they land on the Moon.

Program length: 35 – 45 Minutes **Best for learners**: 3rd – 8th grade

Version: June 2025

Insect Invasion

What makes a butterfly an insect? Discover the amazing world of the butterfly, learn the basics of butterfly anatomy, understand their lifecycle, and see its fascinating metamorphosis. Students attending will use their artistic skills to create a model of the four stages in the metamorphosis of butterflies.

Program length: 35 – 45 Minutes **Best for learners**: Pre-kindergarten – 3rd grade

Dino Discovery

Why are dinosaurs different from other animals? What happened to the dinosaurs? What did dinosaurs eat? What is a fossil? Explore the prehistoric world as you learn how to identify dinosaurs while holding real fossils and creating your very own Dino-fossil.

Program length: 35 – 45 Minutes **Best for learners**: Kindergarten– 3rd grade

Optical Illusions (The material fee for this class is \$15.00)

Trick your eyes and brain with optical illusions and discover how artists have used techniques to trick us for hundreds of years. Learners observe a real cow's eye dissection and learn about how the parts of the eye work together to create our sense of sight.

Program length: 35 – 45 minutes **Best for learners**: 3rd – 8th grade

Crime Lab Science*

Learn about forensic science and how evolving technology helps scientists and detectives discover the truth about mysterious criminal cases. "Detectives in training" participate in a mock investigation where they identify the main types of fingerprints, explore the science of chromatography, learn about DNA and how to extract it, and use all the evidence to identify the culprit.

Program length: 35 – 45 minutes **Best for learners**: 3rd – 8th grade

Spinning in Space

Why is it light during the day and dark at night? Learn about Earth and its relation to other bodies in the solar system. Students discover, through kinesthetic activities, the movement of the Earth, Moon, and Sun system and how this causes common phenomenon such as day and night.

Version: June 2025

Program length: 35 – 45 minutes **Best for learners**: Pre-kindergarten – 5th Grade

Just a Phase*

Just a Phase investigates Earth's closest neighbor, the Moon. Students explore lunar phases by creating and observing a scale model of the Earth-Sun-Moon system, identifying the phases of the moon, and discussing how and why they occur.

Program length: 35 – 45 minutes **Best for learners**: 2nd – 5th grade

Shadows from Space; The Science of Eclipses

In this workshop students will learn about the patterns of movement that the sun, moon and stars make and make a model to show how an eclipse works. Students will understand what is happening during an eclipse in the sky above them.

Program length: 35 – 45 minutes **Best for learners**: 1st – 8th grade

Science Solutions

Did you know that the famous Silly Putty[®] was accidentally developed by an engineer for General Electric, James Wright? Bounce into the world of Chemistry by mixing different ratios of ingredients to make the best bouncy ball.

Program length: 35 – 45 Minutes **Best for learners**: 2nd – 5th Grade

*Dry Ice** - This is a demo and not a hands-on class. (The material fee for this class is \$55.00) Explore the states of matter with some super cold chemical ice! Participants watch as objects are frozen before their eyes, bubbles float on an invisible bed, and clouds of gas erupt

from the lab table. Learners also get to observe firsthand the process of sublimation, where a solid becomes a gas without first becoming a liquid.

Program length: 35 – 45 minutes **Best for learners**: 1st – 8th grade

Liquid Nitrogen - This is a demo and not a hands-on class. (The material fee for this class is \$55.00)

Nitrogen is a gas that can become a liquid! Participants observe such uncommon states of matter as liquid boiling at room temperature. Through fascinating demonstrations, learners discover how liquid nitrogen is made and used in science, and the curious effects this extreme cold has on a variety of materials.

Program length: 35 – 45 Minutes **Best for learners**: 2nd – 8th Grade

Magic of Electricity

What is electricity, what are the types and where does it come from? Explore the different types of electricity and see how it is generated and used in this shocking program!

Program length: 35 – 45 Minutes **Best for learners**: 2nd – 8th Grade

*An advanced version of this program is available for students up to 12th grade.

Financial aid may be available for those who qualify. For bookings, please contact <u>reservations@misci.org</u>.