Summer 2023
Activity-based camps that mix learning and fun!

Roper Mountain Science Center

Summer Exploration Camps

Welcome to Summer Exploration Camps at Roper Mountain Science Center. Our camps combine education and fun, offering a unique opportunity for kids to learn and play.

Register Online at RoperMountain.org

Members only online registration
Tuesday, March 7 through Wednesday, March 8

Monday, March 7 is online member registration only, beginning 7:00am. No walk-in registration.

Public registration opens online Thursday, March 9 at 8:00am.

New!

Look for the icon to see the latest camp offerings for your age group.

Summer Adventure
June 1 – July 29, 2023

- Explore our new building & exhibits
- Encounter traveling exhibit “How People Make Things”
- Pet a stingray in our Marine Lab
- Discover our Living History Farm
- New Outdoor Dinosaur Trails
- And so much more...

Roper Mountain
RoperMountain.org
In This Guide

Use the information below to find all of the camps available for your child's completed grade level.

Completed Grades K4 or K5..................................................................................................................1
Completed Grades K5 or 1........................................................................................................................2
Completed Grades 1 or 2...........................................................................................................................3, 4
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LEGO® Robotics.............................................................................................................................................13, 14
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Events at Roper Mountain

Pi Day Party
March 14
Join us for an evening of fun, hands-on STEM demonstrations, drinks, hors d'oeuvres, and pie (of course!) at our first annual Pi Day Party, hosted by the Roper Mountain Science Center Association. Adults Only

Friday Starry Nights
Year Round on Friday Nights

Planetarium showtimes include:
• Feature Presentation
• Live Sky Talk
• Spacepark 360 Virtual Rollercoaster
• Observatory viewing available (weather permitting).

Summer Adventure
June 1 - July 29
• Explore our new building & exhibits
• Encounter traveling exhibit “How People Make Things”
• Pet a stingray in our Marine Lab     • Discover our Living History Farm
• Visit the new Outdoor Dinosaur Trails • And so much more...

Laser Shows in the Planetarium
Summer, Halloween and Holiday Seasons
Fairy Tales at Roper Mountain
We'll have some classic fairy tales read to us, and then explore the wooded trails, treehouses, gardens, bridge and farm to re-enact our fairy tale of the day! Campers will create projects, sing songs, play games and act out fairy tales with puppets. Stories will include Jack and the Beanstalk, Little Red Riding Hood, The Three Little Pigs, The Billy Goats Gruff and more.
Session: 1
Dates: July 17 - 21
Times: 9:00am - 12noon
Completed Grades: K4 or K5
Instructor: Leslie Baxley
Location: Symmes Hall Lab 7
Fee: $150

The World Around Us
We'll journey through our walking trails, meet the animals that call the mountain home, take a look through a telescope, and use technology to view RMSC from the sky. Campers will get an in-depth look at how observation can tell them a lot about the world around them. Each day will focus on one of the five senses as we learn to be good observers and use all of our senses.
Session: 1
Dates: June 5 - 9
Times: 9:00am - 12noon
Completed Grades: K4 or K5
Instructor: Jasmin Poor
Location: Symmes Hall Lab 7
Fee: $150

Session: 2
Dates: June 26 - 30
Times: 9:00am - 12noon
Completed Grades: K4 or K5
Instructor: Jasmin Poor
Location: Symmes Hall Lab 7
Fee: $150

Students in completed grade K4 will be attending K5 in the Fall.

Mermaids and Monsters
From Mermaids to the Loch Ness Monster, campers will have fun looking for clues that these mythical creatures may exist in the world around us. Students will be encouraged to use their imagination while participating in fun crafts and activities like making seashell necklaces, unicorn cloud dough, sea monster slime, and more!
Session: 1
Dates: July 16 and July 23
Times: 9:00am - 12noon
Completed Grades: K4 or K5
Instructor: Ashley Zalabak
Location: Discovery Room D
Fee: $150

Activate Creature Powers
What are “creature powers?” All of the special skills and cool characteristics of animals! Join us while we search for animals at Roper Mountain and discover their unique abilities. We will craft some of their cool characteristics for ourselves and use our imagination to activate creature powers!
Session: 1
Dates: June 12 - 16
Times: 9:00am - 12noon
Completed Grades: K4 or K5
Instructor: Erin EuDaly
Location: Symmes Hall Lab 7
Fee: $150

Session: 2
Dates: June 19 - 23
Times: 9:00am - 12noon
Completed Grades: K4 or K5
Instructor: Erin EuDaly
Location: Symmes Hall Lab 7
Fee: $150

Fancy Nancy
Ooh La La! This exquisite camp is inspired by the Fancy Nancy series by Jane O’Connor. Campers will become Explorers Extraordinaire as we learn about bugs, butterflies and other critters. As Aspiring Artists, we will draw and create beautiful artwork, and cultivate our inner Fashionista with a fashion show. Can’t wait to see you there – au revoir!
Session: 1
Dates: July 10 - 14
Times: 9:00am - 12noon
Completed Grades: K4 or K5
Instructor: Leslie Baxley
Location: Symmes Hall Lab 7
Fee: $150

Register Online
RoperMountain.org

10% Members Receive a 10% Discount!
Seussapalooza
Oh, the places we’ll go! Come on a fantastic adventure of science fun taken from the pages of Dr. Seuss favorites. There will be stories to read and fun STEM science too. We’ll take a microscopic search for Who-ville and Whos, hike to the pond for fun with a turtle named Yertle and make crazy fish. We’ll make Truffula Tree Treats and explore Hop on Pop Popcorn Science. Dr. Seuss is on the loose at Roper Mountain, so join us! “We’ll have lots of good fun that is funny!”

Session: 1
Dates: July 24 - 28
Times: 9:00am - 12noon
Completed Grades: K5 or 1
Instructor: Madison Mann
Location: Symmes Hall Lab 4
Fee: $150

Mini Makers
Using our creative mind and hands-on exploration method, we will have fun creating works of art. Who’s ready to play with watercolor and paint, get your hands messy as we build a hanging sculpture and even make our own upcycled animal art? Students will keep a sketch book of their work, which they will take home with them at the end of the week along with all their handmade masterpieces.

Session: 1
Dates: June 5 - 9
Times: 9:00am - 12noon
Completed Grades: K5 or 1
Instructor: Kristin LaRoy
Location: Symmes Hall Lab 3
Fee: $150

Pirates & Buccaneers
Ahoy Matey! Discover the world of pirates, privateers and buccaneers as we explore life as a brigand, learn pirate language and their code of conduct. We’ll discover how pirates used the stars to navigate the high seas, hunt for treasure and uncover secrets about pirates right here in the Carolinas. Join us, or we may have you walk the plank!

Session: 1
Dates: June 19 - 23
Times: 9:00am - 12noon
Completed Grades: K5 or 1
Instructor: Leslie Baxley
Location: Symmes Hall Lab 8
Fee: $150

Jurassic Giants
We’ll go back in time exploring pre-history as we create our own dinosaurs in a habitat we construct. We’ll learn about the lives and extinction of dinosaurs and make our own fossils. Students will make a dino terrarium that we’ll watch grow all week and have fun with daily crafts. The fun continues as campers become dinosaurs in a play they will perform!

Session: 1
Dates: July 24 - 28
Times: 9:00am - 12noon
Completed Grades: K5 or 1
Instructor: Susan Shaw
Location: Conference Center
Fee: $150

Circus Science
Come one, come all to the Under the Big Top Science Circus! We’ll have fun juggling, balancing, doing magic, and even walking on a tightrope. We’ll experiment with popcorn, make cotton candy play dough, ice cream clowns and much more! Step right up and dream big at the Science Circus!

Session: 1
Dates: July 10 - 14
Times: 9:00am - 12noon
Completed Grades: K5 or 1
Instructor: Erin EuDaly
Location: Symmes Hall Lab 8
Fee: $150

Session: 2
Dates: July 17 - 21
Times: 9:00am - 12noon
Completed Grades: K5 or 1
Instructor: Erin EuDaly
Location: Symmes Hall Lab 8
Fee: $150

Camp Curiosity
Every day we will investigate, experiment and make discoveries in a different area of science: animals, space, energy/technology, chemistry, forces and motion and more! Free your curiosity and we’ll learn something new!

Session: 1
Dates: July 31 - Aug 4
Times: 9:00am - 12noon
Completed Grades: K5 or 1
Instructor: Donna Bradt
Location: Symmes Hall Lab 6
Fee: $150

Farm Animals & Garden Fun!
Let’s be farmers for a week! Each day we’ll visit the barn to feed, care for, and learn about our special farm animals. We’ll have fun gardening in our huge vegetable and fruit garden, sit on the hay to hear funny farm stories and run in the pasture to play silly farm games! There’ll be cool critter crafts to create and plants to put up and take home. Put your boots on and come on down to the farm!

Session: 1
Dates: June 5 - 9
Times: 9:00am - 12noon
Completed Grades: K5 or 1
Instructor: Lisa Dye
Location: Living History Farm
Fee: $150

Session: 2
Dates: June 12 - 16
Times: 9:00am - 12noon
Completed Grades: K5 or 1
Instructor: Dana Lackey
Location: Living History Farm
Fee: $150

Snow Much Fun
Summer fun has never been so chilly! Join us for a week filled with frozen fun. We’ll make instasnow, marshmallow snowmen, frozen slime and so much more! We’ll finish our week with a “snowball” fit for royalty. The cold won’t bother you when you’re having Snow Much Fun!

Session: 1
Dates: June 19 - 23
Times: 9:00am - 12noon
Completed Grades: K5 or 1
Instructor: Dana Lackey
Location: Living History Farm
Fee: $150

New!
Completed Grades 1 or 2

Solar System Explorers
Our explorers will have an exciting week learning all about our solar system, constellations, and galaxies beyond our own as they make stars, moon craters, space shuttles, and rockets. We will study the space station and our upcoming mission to Mars. Students will take all they have learned to make their own costumes and write their own lines for an “all-star” solar system play that they will perform!

Session: 1
Dates: July 10 - 14
Times: 9:00am - 12noon
Completed Grades: 1 or 2
Instructor: Susan Shaw
Location: Conference Center
Fee: $150

Kitchen Chemistry
Using common items from the kitchen, we’ll examine and create fun and interesting mixtures and solutions. We’ll make our own play dough, make super bubbles and more as we explore how we can find science in our very own homes!

Session: 1
Dates: June 5 - 9
Times: 9:00am - 12noon
Completed Grades: 1 or 2
Instructor: Kyle Rollins
Location: University Classroom
Fee: $150

Session: 2
Dates: June 12 - 16
Times: 9:00am - 12noon
Completed Grades: 1 or 2
Instructor: Kyle Rollins
Location: University Classroom
Fee: $150

Away We Grow
Budding botanists will love learning about flowers and plants in our Rainforest, Butterfly Garden, Herb Garden and plant labs. We’ll learn all about kinds of flowery friends from near and far, and make fun projects to take home.

Session: 1
Dates: July 24 - 28
Times: 9:00am - 12noon
Completed Grades: 1 or 2
Instructor: Kyle Rollins
Location: University Classroom
Fee: $150

Pop, Bang, Sputter FULL DAY
Campers soak up science as they spend all day experimenting with topics such as surface tension, matter, heat and color. They will be amazed as they create rainbows, silly putty, CO2 poppers, volcanoes, oceans in a bottle and way ‘cool’ demonstrations. Students will love using their science senses to see how ‘egg-citing’ exploring science can be!

Session: 1
Dates: June 12 - 16
Times: 9:00am - 4:00pm
Completed Grades: 1 or 2
Instructor: Stacey Merritt
Location: Symmes Hall Lab 8
Fee: $285

Young Engineers Academy
Get ready to design and create a variety of structures, flying machines, robots, and more! In this fun-filled week, students will learn how to turn simple materials into the amazing ideas of their imaginations. They will test their designs and have the chance to change their designs for re-tests. Learning the engineering process has never been so much fun!

Session: 1
Dates: July 17 - 21
Times: 9:00am - 12noon
Completed Grades: 1 or 2
Instructor: Susan Shaw
Location: Conference Center
Fee: $150

Animal Detectives
Each student will be paired with an “Animal of the Week” from our collection of live animals (such as turtles, salamanders, snakes, frogs, and mammals) as they learn about animal habits and care. As Animal Detectives, campers will also search for animal clues in our forest and pond through discovery hikes, outdoor hunts and do take-home projects, including a millipede habitat.

Session: 1
Dates: June 26 - 30
Times: 9:00am - 12noon
Completed Grades: 1 or 2
Instructor: Tim Taylor
Location: Discovery Room A
Fee: $150

Animal Habitats FULL DAY
From rainforest to butterfly garden, and from pond to woodland – each day will bring new adventures as students explore a different habitat theme. We will enjoy engaging story times, creative craft projects, guided outdoor hikes and live animal interactions. Investigation destinations include the nature trails and gardens as well as a field trip to the wetland habitats at Conestee Nature Park.

Session: 1
Dates: July 31 - Aug 4
Times: 9:00am - 4:00pm
Completed Grades: 1 or 2
Instructor: Tim Taylor
Location: Ecology Lab
Fee: $300
Field trips are subject to availability of venue and may be cancelled or changed due to weather or other extenuating circumstances.

Silly Slime
Silly Slime! Gooey Gak! Flubber! Kids will explore and enjoy mixing simple ingredients to make different recipes, while learning the science behind the slimy wonder. We will make all kinds of slime, including magnetic, glow in the dark, color-changing and more!

Session: 1
Dates: June 19 - 23
Times: 9:00am - 12noon
Completed Grades: 1 or 2
Instructor: Ragan Brown
Location: Astronomy Classroom
Fee: $150

New! Field Trip!
Little House on the Farm I
What was life like for Laura Ingalls, Ma, Pa, and the rest of her family in the 1870’s? We will bring these classic books to life as we play schoolyard games, make butter, and bake over an open hearth. Campers will enjoy making their own potpourri, wood cabins, and clothespin dolls. We will help with house, barn and garden chores, including picking garden vegetables and fruit.

**Session:** 1
**Dates:** July 10 - 14
**Times:** 9:00am - 12noon
**Completed Grades:** 1 or 2
**Instructor:** Lisa Dye
**Location:** Living History Farm
**Fee:** $150

Science Sleuths
Join us for a week of discovery as we explore all the different parts of Roper Mountain. We will examine the past as we design and build our own roller coasters, and the future of science with the exploration of space! Throughout our week we will complete hands-on investigation activities as we become Science Sleuths!

**Session:** 1
**Dates:** July 31 - Aug 4
**Times:** 9:00am - 12noon
**Completed Grades:** 1 or 2
**Instructor:** Amy St. John
**Location:** Conference Center
**Fee:** $150

Magic Tree House Adventure FULL DAY
We'll go on magical journeys to faraway lands and ages past: Ancient Greece, medieval times, Japan and to the Moon. Explore the Amazon Jungle, Ancient Rome and more through crafts, games, discovery, and imagination. We will travel to the planetarium, rainforest, marine lab, farm, Wildwood, and, of course, our tree house!

**Session:** 1
**Dates:** July 24 - 28
**Times:** 9:00am - 4:00pm
**Completed Grades:** 2 or 3
**Instructor:** Lisa Dye
**Location:** Living History Farm
**Fee:** $285

Tiny Worlds: Exploring EcoSystems
Learn all about self-sustaining ecosystems and make some, too! We'll collect lake water and examine it under microscopes to see what creatures are living in our ecosystems and make an aquatic ecosystem (with a live creature) you can take home. Learn what living things need to survive and make a terrarium tiny enough to wear as a necklace!

**Session:** 1
**Dates:** July 17 - 21
**Times:** 9:00am - 12noon
**Completed Grades:** 2 or 3
**Instructor:** Ashley Zalabak
**Location:** Discovery Room D
**Fee:** $150

Little House on the Farm II
Campers will try their hand at the chores, crafts, and way of life that Laura Ingalls and her family experienced. We'll go herb picking, write with quill pens, clean laundry with a washtub, and cook flapjacks like Laura did. Campers will practice simple sewing, make a corn husk doll, attend an old-fashioned school lesson, and dance to music Pa played on his fiddle. Little House I camp is not required.

**Session:** 1
**Dates:** July 17 - 21
**Times:** 9:00am - 12noon
**Completed Grades:** 2 or 3
**Instructor:** Lisa Dye
**Location:** Living History Farm
**Fee:** $150

Ahoy Matey!
Join the crew on the high seas and have some incredible adventures along the way! We'll learn all about the pirate life as we swab the deck, build a catapult, learn about shipwrecks, walk the plank, meet alligators and sharks and more! X marks the spot for a thrilling pirate adventure!

**Session:** 1
**Dates:** June 26 - 30
**Times:** 9:00am - 12noon
**Completed Grades:** 2 or 3
**Instructor:** Anne Howell
**Location:** Astronomy Classroom
**Fee:** $150

Tiny Worlds: Exploring EcoSystems
Learn all about self-sustaining ecosystems and make some, too! We'll collect lake water and examine it under microscopes to see what creatures are living in our ecosystems and make an aquatic ecosystem (with a live creature) you can take home. Learn what living things need to survive and make a terrarium tiny enough to wear as a necklace!

**Session:** 1
**Dates:** July 17 - 21
**Times:** 9:00am - 12noon
**Completed Grades:** 2 or 3
**Instructor:** Ashley Zalabak
**Location:** Discovery Room D
**Fee:** $150

New!
Completed Grades 2 or 3

Zip, Zap, Zoom
Explore a range of air and flight activities such as balloons, airplanes, kites, parachutes, and straw rockets! Campers will learn that from the smallest gnat to the largest aircraft, all things that fly obey the same science principles. Students will also investigate parameters that could make their aircraft better!

***Session: 1***
***Dates: July 24 – 28***
***Times: 9:00am - 12noon***
***Completed Grades: 2 or 3***
***Instructor: Elizabeth Koller***
***Location: Symmes Hall Lab 8***
***Fee: $150***

Nature Art
We'll explore the outdoors and learn about all things nature as we inspire our creative senses. We'll create beautiful art using natural materials, clay, watercolors and ink. Rex the Alligator may even stop by to help us paint! Don't miss out on this naturally crafty experience!

***Session: 1***
***Dates: July 10 - 14***
***Times: 9:00am - 12noon***
***Completed Grades: 2 or 3***
***Instructor: Meg McKnight***
***Location: Discovery Room B***
***Fee: $150***

Padawan Academy
Are you strong with the Force? Star Wars and sci-fi fans are invited to begin their own Hero’s Journey. Explore the world of Star Wars as you take on the role of Padawan and create and learn with other trainees. May the Force be with Us as we learn the ways of the Jedi and have fun at the same time!

***Session: 1***
***Dates: June 5 - 9***
***Times: 9:00am - 12noon***
***Completed Grades: 2 or 3***
***Instructor: Joe Blizzard***
***Location: Symmes Hall Lab 4***
***Fee: $150***

***Session: 2***
***Dates: June 12 - 16***
***Times: 9:00am - 12noon***
***Completed Grades: 2 or 3***
***Instructor: Joe Blizzard***
***Location: Symmes Hall Lab 4***
***Fee: $150***

MiniBot University
Roll into the world of robotics with Sphero! Campers will use a Sphero Mini rolling robot to explore the world of robots and programming. Each day will bring a new challenge designed to help campers get to know their robots and how to use them. At the end of the week, campers will take their robot home with them. Android or Apple device is needed to use the Sphero Mini at home.

***Session: 1***
***Dates: July 10 - 14***
***Times: 9:00am - 12noon***
***Completed Grades: 2 or 3***
***Instructor: Joe Blizzard***
***Location: Symmes Hall Lab 3***
***Fee: $210***

***Session: 2***
***Dates: July 17 - 21***
***Times: 9:00am - 12noon***
***Completed Grades: 2 or 3***
***Instructor: Joe Blizzard***
***Location: Symmes Hall Lab 3***
***Fee: $210***

Dino Detectives
Can scientists bring dinosaurs and other prehistoric animals back to life using DNA? We'll explore the mysteries that surround these extinct animals as we examine real fossils, explore and catalog our dinosaur trail, meet living fossils, and study microscopic dinosaurs. We'll investigate a future where creatures like the wooly mammoth might live again!

***Session: 1***
***Dates: July 31 - Aug 4***
***Times: 9:00am - 12noon***
***Completed Grades: 2 or 3***
***Instructor: John Hurley***
***Location: Discovery Room C***
***Fee: $150***

Books & Builds
Books and science go hand in hand! In this creative camp, we will read a selection of children’s literature and then perform science experiments, activities and crafts centered on the theme. Literature selections include There’s A Hair in My Dirt, Bartholomew and the Oobleck, Bugs are Insects and more!

***Session: 1***
***Dates: July 31 - Aug 4***
***Times: 9:00am - 12noon***
***Completed Grades: 2 or 3***
***Instructor: Kyle Rollins***
***Location: Universe Classroom***
***Fee: $150***

Land, Sea and Sky
Using Roper Mountain’s unique resources like the marine lab, planetarium and observatory, gardens and more, we will explore the features of the land, sea and sky as we discover how these vast and unique spaces are different from each other but also connected.

***Session: 1***
***Dates: July 24 - 28***
***Times: 9:00am - 12noon***
***Completed Grades: 2 or 3***
***Instructor: Donna Frank***
***Location: Discovery Room C***
***Fee: $150***

Killer Plants & Animals
Be careful... Killer Plants and Animals are everywhere, even here at Roper Mountain! Join us for a look into the mysterious world of organisms that can’t survive without eating live prey. Campers will create arts and crafts and take home their own carnivorous plant. We’ll explore carnivores in a week of killer fun!

***Session: 1***
***Dates: June 19 - 23***
***Times: 9:00am - 12noon***
***Completed Grades: 2 or 3***
***Instructor: Kyle Rollins***
***Location: Universe Classroom***
***Fee: $150***
Amazing Puzzle Challenge
Put on your thinking caps and join the Amazing Puzzle Challenge! Working alone and in teams we’ll decode and decipher different ways to approach puzzles including escape room style dilemmas, low-ropes course challenges, Rubik’s cubes and more! We’ll search for a daily clue and put it into a bigger puzzle that we’ll solve by weeks end.

Session: 1
Dates: June 19 - 23
Times: 9:00am - 12noon
Completed Grades: 3 or 4
Instructor: Amy St. John
Location: Conference Center
Fee: $150

Bloxels Video Game Design
Bring your imagination, creativeness, and love for video games by joining our design team. Utilizing the Bloxels design kit and app, you will learn how to create and play your video game. You create and design the characters, the levels, and the actions all from your imagination which is transferred into a real game.

Session: 1
Dates: June 12 - 16
Times: 9:00am - 12noon
Completed Grades: 3 or 4
Instructor: Mirna Hawthorne
Location: Symmes Hall Lab 1
Fee: $150

Session: 2
Dates: June 19 - 23
Times: 9:00am - 12noon
Completed Grades: 3 or 4
Instructor: Matt Taylor
Location: Symmes Hall Lab 5
Fee: $150

Session: 3
Dates: July 10 - 14
Times: 9:00am - 12noon
Completed Grades: 3 or 4
Instructor: Matt Taylor
Location: Symmes Hall Lab 5
Fee: $150

You’ve Been Slimed
Slime is cool! Slime is science! Kids will explore polymers and non-Newtonian fluids by following basic 3-4 ingredient recipes to create thermochromatic, magnetic, glow in the dark slime, and many more slime types!

Session: 1
Dates: June 12 - 16
Times: 9:00am - 12noon
Completed Grades: 3 or 4
Instructor: Ragan Brown
Location: Astronomy Classroom
Fee: $150

Science Sampler
Take a little taste of everything we have to offer! From Rocks and Minerals, Ooey Gooey Science, Science in the Kitchen, From the Ocean to the Shore and more, Science Samplers will explore different areas of Roper Mountain and the science that goes along with them with fun hands-on activities and crafts.

Session: 1
Dates: July 10 - 14
Times: 9:00am - 12noon
Completed Grades: 3 or 4
Instructor: Kyle Rollins
Location: Universe Classroom
Fee: $150

Session: 2
Dates: July 17 - 21
Times: 9:00am -12noon
Completed Grades: 3 or 4
Instructor: Kyle Rollins
Location: Universe Classroom
Fee: $150

Young Scientist FULL DAY
Discover the fast-paced world of motion using marble rollercoasters, balloon hovercrafts, paper airplanes, gears, wheels and axles. Students will learn about friction, gravity and Newton’s laws as they have fun designing, building and experimenting with each of their creations to meet our daily challenges. Our young scientists will take home activities and materials to share.

Session: 1
Dates: June 26 - 30
Times: 9:00am - 4:00pm
Completed Grades: 3 or 4
Instructor: Caitlin Drummond
Location: Symmes Hall Lab 8
Fee: $285
Junior Naturalist **FULL DAY**
In this nature camp, students will conduct investigations through explorations and discoveries in the woods and in the waters of Roper Mountain and at Paris Mountain State Park. Junior naturalists will develop skills necessary to appreciate the outdoors and learn to read clues from nature. Inside the lab, students will practice nature ID skills and make collections as they learn about nature. Plans include two field trips to Paris Mountain State Park.

**Session:** 1  
**Dates:** June 12 - 16  
**Times:** 9:00am - 4:00pm  
**Completed Grades:** 3 or 4  
**Instructor:** Tim Taylor  
**Location:** Discovery Room B  
**Fee:** $315

Field trips are subject to availability of venue and may be cancelled or changed due to weather or other extenuating circumstances.

Junior Rocketry
We'll construct straw rockets, launch bottle rockets, and build and launch our own Alpha III rocket! Learn all about beginning concepts in rocketry, Newton's laws of motion, basic flight principles and more during this fun-filled camp especially designed for Junior Rocketeers.

**Session:** 1  
**Dates:** June 5 - 9  
**Times:** 9:00am - 12noon  
**Completed Grades:** 3 or 4  
**Instructor:** Erin EuDaly  
**Location:** Symmes Hall Lab 8  
**Fee:** $175

Pet Care
Dogs and cats, birds and snakes, we’ll learn about them all! Learn the basics of how to care for a pet as we meet a new friend each day and learn how to care for them. Whether you already have a pet or are trying to decide what pet is right for you, Pet Care camp will give you a new appreciation for our furry (or scaly!) family members.

**Session:** 1  
**Dates:** June 26 - 30  
**Times:** 9:00am - 12noon  
**Completed Grades:** 3 or 4  
**Instructor:** Kyle Rollins  
**Location:** Universe Classroom  
**Fee:** $150

Hollywood Makers
You Set the Scene as Movie Prop Master  
Do you love the magic of movies? Now you can be part of process that brings it to the screen! Hollywood Makers will explore superhero, space, fantasy/magic, spy and animation movies through prop building, design challenges and science to make it all come alive. You will make it happen as you live out your movie dreams!

**Session:** 1  
**Dates:** July 31 - Aug 4  
**Times:** 9:00am - 12noon  
**Completed Grades:** 3 or 4  
**Instructor:** Joe Blizzard  
**Location:** Symmes Hall Lab 3  
**Fee:** $150

**Extended Lunch Stay**
- For campers attending half or full day camps that begin at 9:00am.
- Campers will meet at Symmes Hall of Science (top of the mountain) beginning at 7:30am. This will not be structured time.
- Early drop-off campers must arrive by 8:30am (Arrivals after 8:30am should report directly to their camp location.)
- Pre-registration is required by the Wednesday before the start of your camp week and payment must be received prior to the start of your camp week.
- Cost is $60 per week, no member discount.
- No refunds for cancellations received later than 7 days before camp start.

**Early Drop-off**
- For campers attending half or full day camps that begin at 9:00am.
- Campers will meet at Symmes Hall of Science (top of the mountain) beginning at 7:30am. This will not be structured time.
- Early drop-off campers must arrive by 8:30am (Arrivals after 8:30am should report directly to their camp location.)
- Pre-registration is required by the Wednesday before the start of your camp week and payment must be received prior to the start of your camp week.
- Cost is $60 per week, no member discount.
- No refunds for cancellations received later than 7 days before camp start.

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Olympian Adventure
Inspired by Rick Riordan’s *Percy Jackson* Series. Learn about all things Greek through arts and crafts, cooking and games. Hone your battlefield skills by making your own sword and shield and playing team capture the flag. We’ll also explore the arts of archery and fencing. We don’t need an oracle to tell us that this will be a week filled with fun!

**Session:** 1  
**Dates:** July 24 - 28  
**Times:** 9:00am - 12noon  
**Completed Grades:** 3 or 4  
**Instructor:** Caitlin Drummond  
**Location:** Discovery Room D  
**Fee:** $150

Looking for LEGO® Robotics?  
See Pages 13-14

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Pet Care
Dogs and cats, birds and snakes, we’ll learn about them all! Learn the basics of how to care for a pet as we meet a new friend each day and learn how to care for them. Whether you already have a pet or are trying to decide what pet is right for you, Pet Care camp will give you a new appreciation for our furry (or scaly!) family members.

**Session:** 1  
**Dates:** June 26 - 30  
**Times:** 9:00am - 12noon  
**Completed Grades:** 3 or 4  
**Instructor:** Kyle Rollins  
**Location:** Universe Classroom  
**Fee:** $150

Hollywood Makers
You Set the Scene as Movie Prop Master  
Do you love the magic of movies? Now you can be part of process that brings it to the screen! Hollywood Makers will explore superhero, space, fantasy/magic, spy and animation movies through prop building, design challenges and science to make it all come alive. You will make it happen as you live out your movie dreams!

**Session:** 1  
**Dates:** July 31 - Aug 4  
**Times:** 9:00am - 12noon  
**Completed Grades:** 3 or 4  
**Instructor:** Joe Blizzard  
**Location:** Symmes Hall Lab 3  
**Fee:** $150

**Extended Lunch Stay**
- For campers attending half or full day camps that begin at 9:00am.
- Campers will meet at Symmes Hall of Science (top of the mountain) beginning at 7:30am. This will not be structured time.
- Early drop-off campers must arrive by 8:30am (Arrivals after 8:30am should report directly to their camp location.)
- Pre-registration is required by the Wednesday before the start of your camp week and payment must be received prior to the start of your camp week.
- Cost is $60 per week, no member discount.
- No refunds for cancellations received later than 7 days before camp start.

**Early Drop-off**
- For campers attending half or full day camps that begin at 9:00am.
- Campers will meet at Symmes Hall of Science (top of the mountain) beginning at 7:30am. This will not be structured time.
- Early drop-off campers must arrive by 8:30am (Arrivals after 8:30am should report directly to their camp location.)
- Pre-registration is required by the Wednesday before the start of your camp week and payment must be received prior to the start of your camp week.
- Cost is $60 per week, no member discount.
- No refunds for cancellations received later than 7 days before camp start.
Junior Master FULL DAY Gardener
Attend both weeks of camp and be certified as a Junior Master Gardener. Use herbs to make “sun tea” and cookies, taste veggies right out of the garden, learn a rap about plants, dye your own indigo bandana and make a worm farm. Learn horticultural practices in a fun and hands-on atmosphere. We’ll use the garden as a STEM exploration lab.

Session 1
Investigate earthworms, prepare your own treats with products from the garden and experiment with plant propagation. We’ll spend a day visiting a local farm to learn about the business of growing vegetables.

Session:
Dates: June 26 - 30
Times: 9:00am - 4:00pm
Completed Grades: 4 or 5
Instructor: GGMG
Location: Shelter 10
Fee: $220

Session 2
Create “Grow Greeting Cards”, make a gourd birdhouse and go on an insect scavenger hunt with tools you make! We’ll take a fun field trip to learn about new ways to garden.

Session:
Dates: July 10 - 14
Times: 9:00am - 4:00pm
Completed Grades: 4 or 5
Instructor: Multi
Location: Shelter 10
Fee: $220

Field trips are subject to availability of venue and may be cancelled or changed due to weather or other extenuating circumstances.
Pioneer Apprentice
Did you ever wonder what life was like for a pioneer 200 years ago? We'll explore farm life and skills from the 1800’s, including learning about leatherwork, candle dipping, herb gardening and hearth cooking. Campers will care for our barn animals, including our sheep, pig and chickens. We’ll have a great time making and playing with historic toys and games. Hand-cranked ice cream will be a sweet ending to our fun week on the farm!
Session: 1
Dates: June 26 - 30
Times: 9:00am - 12noon
Completed Grades: 4 or 5
Instructor: Dana Lackey
Location: Living History Farm
Fee: $150

Astro Apprentice
We'll travel to all the corners of the universe as we explore how big space actually is, identify and learn about constellations, become mission specialists for NASA’s Artemis mission to the moon and so much more. There will be lots of hands-on activities and time spent in the T.C. Hooper Planetarium and Daniel Observatory. Join us for an out of this world experience!
Session: 1
Dates: July 10 - 14
Times: 9:00am - 12noon
Completed Grades: 4 or 5
Instructor: Glenn Sparkman
Location: Astronomy Classroom
Fee: $150

Wilderness Explorations
Learn the expertise, knowledge and attitude you’ll need for wilderness survival and land navigation in this specialized course. We’ll learn fire craft, solar stills, shelter building, knot tying, survival food, navigation at night, first-aid, plant identification and other fundamental skills through hands-on activities. Bring your sense of adventure!
Session: 1
Dates: June 19 - 23
Times: 9:00am - 12noon
Completed Grades: 4 or 5
Instructor: John Hurley
Location: Discovery Room D
Fee: $150

Session: 2
Dates: July 24 - 28
Times: 9:00am - 12noon
Completed Grades: 4 or 5
Instructor: Glenn Sparkman
Location: Astronomy Classroom
Fee: $150

Session: 3
Dates: July 17 - 21
Times: 9:00am - 12noon
Completed Grades: 4 or 5
Instructor: Glenn Sparkman
Location: Astronomy Classroom
Fee: $150

Web Architects
Learn today what you can build for the future! This course teaches campers how to entrepreneurially invent 3D-printable products and use the foundational language of website coding, HTML and CSS, to create awesome websites for them! By the end of the week, our architects will be able to construct a website with interactive features that gives them entrepreneurial skills to take into their future classrooms and beyond.
Session: 1
Dates: June 26 - 30
Times: 9:00am -12noon
Completed Grades: 4 or 5
Instructor: Towns Lenihan
Location: Conference Center
Fee: $150

Our Vision
To be a pinnacle of innovative learning, an engine for community engagement, and a national leader in science education

Our Mission
To ignite the natural curiosity of all learners to explore and shape their world

Our Beliefs
• Science is for everyone.
• Science is exploring, investigating, and innovating.
• The exploration of our past, present, and future strengthens insight and provides new perspectives.
• We are stewards of natural, cultural, and historical resources.
• Positive learning experiences promote the development of an informed society.
• Hands-on experiences with real world connections make learning challenging and fun.
• All students deserve opportunities to actively participate in our programs.
• An engaged community of partners and volunteers fosters innovative learning experiences.
• Education, business, and community collaborations make us stronger and more effective.
• Continuous improvement is vital to our success.
Completed Grades 5, 6 or 7

**Project Discovery**
Like to experiment? Want to make stuff stronger, lighter, better? In this STEAM-focused camp, you will combine engineering, chemistry, physics and much more to explore materials in the world around you. You’ll use common materials to create a golden penny, concoct polymers, grow crystals, engineer a battery from fruit, and have a contest to make the strongest cement.

- **Session: 1**
  - **Dates:** July 31 - Aug 4
  - **Times:** 9:00am - 12noon
  - **Completed Grades:** 5, 6 or 7
  - **Instructor:** Val Mosher
  - **Location:** Symmes Hall Lab 4
  - **Fee:** $150

**Master Web Builders FULL DAY**
Come to this camp not just to learn how to design websites, but to become a master web builder! We will accelerate through the basics to interactive web page creation. You will learn the basics of Javascript so that you can utilize this powerful coding language to create websites that not only display information, but also allow interaction between the user and the site itself.

- **Session: 1**
  - **Dates:** July 10 - 14
  - **Times:** 9:00am - 4:00pm
  - **Completed Grades:** 5, 6 or 7
  - **Instructor:** Todd Childers
  - **Location:** Symmes Hall Lab 1
  - **Fee:** $285

**M.a.D. Lab 3D Printing**
Make and Design Lab is the place where design and technology meet! Learn 3D computer modeling and be challenged to create and design objects, then make them using a 3D printer! Campers will explore maker activities and work on real-world design challenges to make everything from jewelry, small lamps, to ornaments and more.

- **Session: 1**
  - **Dates:** June 19 - 23
  - **Times:** 9:00am - 12noon
  - **Completed Grades:** 5, 6 or 7
  - **Instructor:** Val Mosher
  - **Location:** Symmes Hall Lab 6
  - **Fee:** $150

**Art Entrepreneurs**
We'll explore how art can merge with science, language, math and more to use creativity to solve practical problems. Practice forensic drawing to capture an image of a suspect, design and print your own personal logo on a T-shirt, practice perspective as you design a dream room, illustrate a story using ink and watercolors and more. Unleash your imagination and learn how you can become an art entrepreneur!!

- **Session: 1**
  - **Dates:** June 19 - 23
  - **Times:** 9:00am - 12noon
  - **Completed Grades:** 5, 6 or 7
  - **Instructor:** Bronwyn White
  - **Location:** Symmes Hall Lab 4
  - **Fee:** $150

**Early American Farm Life**
Travel back in time to the 1800's Living History Farm where we will cook over the hearth fire, tend the vegetable garden, feed the farm animals, and perform other daily chores. Explore the world of fibers, including weaving and indigo dyeing. Have fun playing games of the time period. Campers will create useful items with natural materials, and get to take them home. We'll end our week with old fashioned ice cream we make ourselves!

- **Session: 1**
  - **Dates:** June 12 - 16
  - **Times:** 9:00am - 12noon
  - **Completed Grades:** 5, 6 or 7
  - **Instructor:** Dana Lackey
  - **Location:** Living History Farm
  - **Fee:** $150

**Looking for LEGO® Robotics?**
See Pages 13-14
Rocketry
We’ll begin with an exploration of the physics of rockets that will lead into the basic concepts of rocket building as we construct and decorate three model rockets throughout the week. Model building requires patience for fine detail work and sharp tools will be used. With permission, students will bring their rockets home to decorate and return them the next day to prepare for launch. On Friday (weather permitting), families are invited to join us at a nearby park for our rocket launch.

Session: 1
Dates: June 5 - 9
Times: 9:00am - 12noon
Completed Grades: 5, 6 or 7
Instructor: Jenn Romatelli
Location: Astronomy Classroom
Fee: $195

Field trips are subject to availability of venue and may be cancelled or changed due to weather or other extenuating circumstances.

Theme Park Designer
Theme Park Designer is all about bringing the excitement of theme parks to life! Campers will work in teams to design and build their own theme park models, complete with attractions, an interactive physical and digital map, and a recorded tour. They will learn how to use electronic components like Arduinos, LEDs, and sounds to bring their creations to life. Along the way, they will learn valuable skills like teamwork, problem-solving, and creativity. By the end of camp, teams have a fully functional theme park model!

Session: 1
Dates: July 24 - 28
Times: 9:00am - 12noon
Completed Grades: 5, 6 or 7
Instructor: Ken Morrill
Location: Symmes Hall Lab 6
Fee: $150

ReDesign: ReCraft and ReUse
Utilizing all stages of the Creative Design Process, students will repurpose everyday and throwaway objects like bottle caps, cardboard, duct tape and discarded vinyl records and books into functional and decorative works of art! Using a variety of art and craft techniques including painting, sculpture, origami and collage, the ordinary will become extraordinary.

Session: 1
Dates: July 10 - 14
Times: 9:00am -12noon
Completed Grades: 5, 6 or 7
Instructor: Bronwyn White
Location: Symmes Hall Lab 4
Fee: $150

Digital Movie Making
Learn how to be a movie director and technician as you create a live action film in this fun-filled movie production camp. You’ll learn how to use computer movie-editing software along with video still images to create professional-looking movies to share with family or friends or even make eye-popping documentaries for school projects!

Session: 1
Dates: June 26 - 30
Times: 9:00am - 4:00pm
Completed Grades: 5, 6 or 7
Instructor: Ken Morrill
Location: Symmes Hall Lab 4
Fee: $285

Upstate Ecology FULL DAY
Deepen your love for nature by learning about many of the amazing plants and animals that call the Upstate their home. We’ll explore the ecology of Roper Mountain through hikes, investigations and by getting up close and personal with reptiles, amphibians and many exciting invertebrates. We’ll take field trips to Lake Conestee for a guided bird walk and to Table Rock State Park for an in-depth stream study. At the end of the week, we’ll create our own “Treasures from Nature” display inspired by all that we have learned!

Session: 1
Dates: June 5 - 9
Times: 9:00am - 4:00pm
Completed Grades: 5, 6 or 7
Instructor: Meg McKnight
Location: Ecology Lab
Fee: $315

Theme Park Designer
Theme Park Designer is all about bringing the excitement of theme parks to life! Campers will work in teams to design and build their own theme park models, complete with attractions, an interactive physical and digital map, and a recorded tour. They will learn how to use electronic components like Arduinos, LEDs, and sounds to bring their creations to life. Along the way, they will learn valuable skills like teamwork, problem-solving, and creativity. By the end of camp, teams have a fully functional theme park model!

Session: 1
Dates: July 24 - 28
Times: 9:00am - 12noon
Completed Grades: 5, 6 or 7
Instructor: Ken Morrill
Location: Symmes Hall Lab 6
Fee: $150

Register Online
RoperMountain.org

10% Members Receive a 10% Discount!
VEX IQ
Campers will test their creativity using VEX IQ Robotics to design, build, and program real-world devices to compete in fun challenges. Learn to create robotic devices that will accomplish tasks in interesting “hands-free” ways such as picking up and stacking materials. No prior experience necessary! Get ready for doing robotics that is hands-on, engaging, and fun!
Session: 1
Dates: July 24 - 28
Times: 9:00am - 12noon
Completed Grades: Ages 12 and up
Instructor: Chris Beyerle
Location: Symmes Hall Lab 3
Fee: $150

Girls STEAM Ahead
Calling all girls! Join us for a fun week of hands-on science, technology, engineering, art and math activities. We’ll think like engineers as we design and test space gloves, work like programmers as we tackle robotics challenges, become detectives as we solve a forensic mystery, explore the mysteries of outer space as astronomers and so much more.
Session: 1
Dates: June 5 - 9
Times: 9:00am - 12noon
Completed Grades: Ages 12 and up
Instructor: Maggie Connelly
Location: Conference Center
Fee: $150

What Goes Up?
Become a High Altitude Engineer
We’ll work as an engineering team to tackle design challenges and build a housing that will allow us to launch an HD camera high enough to take measurements of the curvature of the earth and film the blackness of space – that’s six time higher than a commercial jet can fly! We’ll determine how to protect our camera against wind speeds of more than 100mph, subzero temperatures and the possibility of a water landing as we safely return it to earth. The sky is (barely!) the limit!
Session: 1
Dates: July 31 - Aug 4
Times: 9:00am - 12noon
Completed Grades: Ages 12 and up
Instructor: Dave Grubaugh
Location: Discovery Room B
Fee: $150

Animal Care
Students will work and train with the Animal Caretaker, learning many aspects of the animal care work that is performed on a routine basis. Such duties include: diet preparation and feeding, cleaning enclosures, proper handling and weighing of select animals, aquatic maintenance, and other basic animal husbandry needs. Students will work hands on with reptiles, amphibians, invertebrates, mammals, and fish. This class can also serve to prepare students who are interested in volunteering with animals at Roper Mountain.
Session: 1
Dates: July 31 - Aug 4
Times: 9:00am - 12noon
Completed Grades: Ages 12 and up
Instructor: Dave Grubaugh
Location: Discovery Room B
Fee: $150

Treasure Mountain
We’ve found an old map buried in the RMSC archives and now we need some intrepid explorers to help us decipher it! We’ll explore mystery and treasure hunting stories, archaeology, puzzle solving, code breaking, riddles and maybe even a snake encounter as we interpret the map and uncover its secrets. Bring your best solving strategies and sense of adventure as we explore Treasure Mountain and unearth the treasure!
Session: 1
Dates: July 17 - 21
Times: 9:00am - 12noon
Completed Grades: Ages 12 and up
Instructor: Anne Howell
Location: Discovery Room C
Fee: $150

Advanced Digital Movie Making
Campers will work with video editing software to create special effects, video overlays and basic motion graphics. Emphasis will be on story-telling using quality editing techniques. Explore green screening, color filters, sound FX, voiceovers and narration, audio mixing and titling. Each day will be focused on another tool to use in making digital movies.
Digital Movie Making is recommended but not required.
Session: 1
Dates: July 17 - 21
Times: 9:00am - 4:00pm
Completed Grades: Ages 12 and up
Instructor: Ken Morrill
Location: Symmes Hall Lab 4
Fee: $285

Laugh Factory
Creating Comedy Gold
Do you love to make people laugh? This camp is an introduction to improvising a comedy scene focusing on fundamentals of agreement, relationship, character and environment. Showcase your new skills with a performance on the final day of camp. Instructor Harrison Brookie is the executive producer and artistic director of the Alchemy Comedy Theater. No previous theater or improv experience required.
Session: 1
Dates: June 19 - 23
Times: 9:00am - 12noon
Completed Grades: Ages 12 and up
Instructor: Harrison Brookie
Location: Auditorium
Fee: $150

Summer Volunteer Opportunities
We are seeking enthusiastic, committed student volunteers to help with camps this summer! Volunteers may be assigned to specific camps, early drop off, extended lunch stay and/or general camp assistance as needed.
Volunteers must:
• Be at least 14 years old as of June 1, 2023
• Be at least 2 grades higher than the highest grade level for any camp to which they are assigned
• Commit to the entire duration of the camp to which they are assigned (not longer than 1 week)
• Follow all safety protocols
LEGO® Robotics

Which LEGO® Robotics camp is right for your student?
The chart below is a handy reference guide to all the robotics camps we offer. Campers may only register for age appropriate camps; no age exceptions will be made. “Grade” refers to the school grade your student will complete this year and/or the age corresponding to that year.

<table>
<thead>
<tr>
<th>Camp</th>
<th>No Experience Required</th>
<th>Experience Preferred</th>
<th>WeDo 1.0 Platform</th>
<th>WeDo 2.0 Platform</th>
<th>Scratch Based Programming</th>
<th>EV3 Platform</th>
<th>Focus on Building</th>
<th>Focus on Programming</th>
<th>Advanced Programming</th>
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<tbody>
<tr>
<td>Beginner Robotics</td>
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<td>Robot Academy</td>
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<td>Mission to Mars</td>
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Beginner Robotics
Time for an early introduction to robotics! Using the LEGO® WeDo robotics kits and software, campers will build several different robots including an alligator, an airplane, a toy spinner and more! Using motors and sensors, campers will build and program robots to complete actions and behaviors. Drag and drop software provides an easy-to-use programming environment suitable for beginners.

**Session: 1**
**Dates:** June 5 - 9  
**Times:** 9:00am - 12noon  
**Completed Grades:** 1 or 2  
**Instructor:** Kim Roberts  
**Location:** Symmes Hall Lab 2  
**Fee:** $150

**Session: 2**
**Dates:** June 19 - 23  
**Times:** 9:00am - 12noon  
**Completed Grades:** 1 or 2  
**Instructor:** Kathie Fox  
**Location:** Symmes Hall Lab 2  
**Fee:** $150

**Session: 3**
**Dates:** June 26 - 30  
**Times:** 9:00am - 12noon  
**Completed Grades:** 1 or 2  
**Instructor:** Coby Dixon  
**Location:** Symmes Hall Lab 2  
**Fee:** $150

**Session: 4**
**Dates:** July 17 - 21  
**Times:** 9:00am - 12noon  
**Completed Grades:** 1 or 2  
**Instructor:** Kim Roberts  
**Location:** Symmes Hall Lab 2  
**Fee:** $150

**Session: 5**
**Dates:** July 24 - 28  
**Times:** 9:00am - 12noon  
**Completed Grades:** 1 or 2  
**Instructor:** Kathie Fox  
**Location:** Symmes Hall Lab 2  
**Fee:** $150

LEGO® Robotics

No Experience Required
Experience Preferred
WeDo 1.0 Platform
WeDo 2.0 Platform
Scratch Based Programming
EV3 Platform
Focus on Building
Focus on Programming
Advanced Programming

13
LEGO Design Engineer
Using the LEGO® Wedo 2.0 kits and software, campers will build creative robots with the opportunity to design their own modifications to the robot and programming. LEGO® Design Engineers will use their robots to enter real-world scenarios. Build a rescue helicopter and race cars! This camp builds on our Beginner Robotics program and is recommended for students who are interested in creative challenges in programming and basic building.

Session: 1
Dates: June 12 - 16
Times: 9:00am - 12noon
Completed Grades: 2 or 3
Instructor: Coby Dixon
Location: Symmes Hall Lab 2
Fee: $150

Session: 2
Dates: June 19 - 23
Times: 9:00am - 12noon
Completed Grades: 2 or 3
Instructor: Donna Frank
Location: Symmes Hall Lab 1
Fee: $150

Session: 3
Dates: July 10 - 14
Times: 9:00am - 12noon
Completed Grades: 2 or 3
Instructor: Kathie Fox
Location: Symmes Hall Lab 2
Fee: $150

Session: 4
Dates: July 31 - Aug 4
Times: 9:00am - 12noon
Completed Grades: 2 or 3
Instructor: Kathie Fox
Location: Symmes Hall Lab 2
Fee: $150

Inventing with LEGO Spike Prime
Using the LEGO® Spike Prime kits, you’ll design and build robots to meet challenging scenarios. Learn how to control motors and use sensors; once you master the basics, we'll move to more advanced design challenges! Can you design and build a handheld grabber tool? A bot without wheels? A safe that unlocks based on your code? We'll learn and apply physical science and math principles along the way.

Session: 1
Dates: June 26 - 30
Times: 9:00am - 12noon
Completed Grades: 3 or 4
Instructor: Val Mosher
Location: Symmes Hall Lab 1
Fee: $150

Session: 2
Dates: July 17 - 21
Times: 9:00am - 12noon
Completed Grades: 3 or 4
Instructor: Coby Dixon
Location: Symmes Hall Lab 1
Fee: $150

Session: 3
Dates: July 24 - 28
Times: 9:00am - 12noon
Completed Grades: 3 or 4
Instructor: Coby Dixon
Location: Symmes Hall Lab 1
Fee: $150

Session: 4
Dates: July 31 - Aug 4
Times: 9:00am - 12noon
Completed Grades: 3 or 4
Instructor: Coby Dixon
Location: Symmes Hall Lab 1
Fee: $150

Robot Academy
Campers will be introduced to the LEGO® EV3 robotics technology. As you build and program a robot to accomplish missions in the Green City challenge. Concepts taught include basic moving, turning, and introduction to the EV3 sensors. This is an introductory robotics camp designed for beginners utilizing LEGO’s Scratch based programing.

Session: 1
Dates: June 5 - 9
Times: 9:00am - 12noon
Completed Grades: 4 or 5
Instructor: Coby Dixon
Location: Symmes Hall Lab 1
Fee: $150

Robot Innovation
In our growing world, we all use technology daily. However, there are still some tasks that we do manually. During this camp we will explore the world of automation and robotics to see how we can create Lego robots to assist in our everyday lives. Using the engineering design process, campers will plan, build, and market their innovative robots.

Session: 1
Dates: July 17 - 21
Times: 9:00am - 12noon
Completed Grades: 5, 6 or 7
Instructor: Matt Taylor
Location: Symmes Hall Lab 5
Fee: $150

Mission to Mars
Learn to design and build robotic rovers that traverse “terrain” and sample the red planet’s ecosystem. We will map the different Mars rover landings and use real world challenges. Students are challenged to use design thinking to solve unexpected challenges they encounter on their mission. Join us as we study the red planet.

Session: 1
Dates: June 26 - 30
Times: 9:00am - 12noon
Completed Grades: 5, 6 or 7
Instructor: Matt Taylor
Location: Symmes Hall Lab 5
Fee: $150

Sumo Bot
Robots Sumo Style! Campers will design, build, and program their “bot” using the touch, light and/or ultra-sonic sensors then challenge another robot in a “Sumo Style” wrestling match (no destruction please!). Throughout the week, campers will re-design their bots and the week will culminate with a Sumo bot tournament.

Session: 1
Dates: June 12 - 16
Times: 9:00am - 12noon
Completed Grades: 5, 6 or 7
Instructor: Matt Taylor
Location: Symmes Hall Lab 5
Fee: $150
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