Summer Exploration Camps
Roper Mountain Science Center

Summer 2021
Activity-based camps that mix learning and fun!

Register Online at RoperMountain.org

Members only online registration
Monday, March 15 through Tuesday, March 16
Monday, March 15 is online member registration only, beginning 7:00am. No walk-in registration.

Public registration opens online Wednesday, March 17 at 8:00am.

Summer Adventure
June 1 – August 14, 2021

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

Roper Mountain

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

RoperMountain.org

GREENVILLE COUNTY SCHOOLS
Inspire | Support | Prepare
Welcome!

Last year was a difficult year, and we missed hosting our popular summer camps. However, we are excited to return for another great summer here at Roper Mountain! Our Summer Exploration Camps continue to offer a wide range of topics for students who have completed K4 through grade 9, including new offerings denoted in the guide. We have reduced the size of our classes and will have safety protocols in place based upon the guidelines at the time camps begin. We also have fewer offerings this year so don’t miss out on early member registration.

New this year will be our 11 week Summer Adventure featuring a brand new 29,000 square foot Environmental Science and Sustainability building showcasing the travelling exhibit “Be the Dinosaur” as well as three permanent exhibits: Our Water Story, Sustainable Future, and the Nature Exchange. Beginning Tuesday, June 1 through Saturday August 14, you’ll have an opportunity to experience our new exhibits and building, explore a new outdoor Dinosaur Trail, as well visit Harrison Hall, Wildwood and the Living History Farm. Summer Adventure is open Tuesday through Saturday, 10:00am to 4:00pm.

Laser Days of Summer will also return to the Planetarium – more details will be available regarding shows and schedule soon.

Please visit our website at RoperMountain.org for a full schedule of events and for ticket information.

In This Guide

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

Completed Grades K4 - K5..................................................................................................................1
Completed Grades K5 - 1..................................................................................................................1, 2
Completed Grades 1 - 2..................................................................................................................3, 4
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Completed Grades 3 - 4..................................................................................................................6, 7
Completed Grades 4 - 5..................................................................................................................7, 8
Completed Grades 5 - 7..................................................................................................................9
Ages 12+...............................................................................................................................................10
LEGO® Robotics.................................................................................................................................11, 12, 13
Octonaut’s Ocean
Come join Captain Barnacles and be part of his crew! This camp is based on the beloved Octonaut book series by Meomi. We will explore the ocean and learn about the creatures that live there. Each day we will explore the Marine Lab and learn about an animal and its ocean habitat. Then we’ll have fun with daily crafts or hands-on activities.

**Session:** 1
**Dates:** June 14 - 18
**Times:** 9:00am - 12noon
**Completed Grades:** K4 and K5
**Instructor:** Leslie Baxley
**Location:** Mineral Lab
**Fee:** $125

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:** July 12 - 16
**Times:** 9:00am - 12noon
**Completed Grades:** K4 and K5
**Instructor:** Erin EuDaly
**Location:** Symmes Hall Lab 9
**Fee:** $125

**Session:** 2
**Dates:** July 19 - 23
**Times:** 9:00am - 12noon
**Completed Grades:** K4 and K5
**Instructor:** Erin EuDaly
**Location:** Symmes Hall Lab 9
**Fee:** $125

Very Hungry Caterpillar
Based on the Eric Carle book, *The Very Hungry Caterpillar*, campers will explore caterpillars and compare what they eat in the book to our host plants here in South Carolina. We will visit the Butterfly Garden and other locations on the mountain and see if we can find signs of butterflies and caterpillars. We will also learn about the life stages of a butterfly and create 3D models to represent each stage.

**Session:** 1
**Dates:** June 21 - 25
**Times:** 9:00am - 12noon
**Completed Grades:** K4 and K5
**Instructor:** Leslie Baxley
**Location:** Mineral Lab
**Fee:** $125

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 and enjoy healthy snacks to reward our efforts. We’ll 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 delicious edible plants to pot up and take home. Put your boots on and come on down to the farm!

**Session:** 1
**Dates:** June 14 - 18
**Times:** 9:00am - 12noon
**Completed Grades:** K5 and 1
**Instructor:** Dana Lackey
**Location:** Living History Farm
**Fee:** $125

**Session:** 2
**Dates:** June 28 - July 2
**Times:** 9:00am - 12noon
**Completed Grades:** K5 and 1
**Instructor:** Lisa Dye
**Location:** Living History Farm
**Fee:** $125

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 21 - 25
**Times:** 9:00am - 12noon
**Completed Grades:** K4 and K5
**Instructor:** Jasmin Poor
**Location:** Universe Classroom
**Fee:** $125

**Session:** 2
**Dates:** June 28 - July 2
**Times:** 9:00am - 12noon
**Completed Grades:** K4 and K5
**Instructor:** Jasmin Poor
**Location:** Universe Classroom
**Fee:** $125

New! Members Receive a 10% Discount!
Coding Trailblazers
Journey into the world of coding! We’ll start with basic coding concepts, then use a variety of unplugged and online coding activities to refine your skills. Campers will work on individual and collaborative group tasks. Combine creativity with problem solving as you blaze a trail into the knowledge of computer coding!

Session: 1
Dates: June 7 - 11
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Matt Taylor
Location: Symmes Hall Lab 4
Fee: $125

Session: 2
Dates: June 14 - 18
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Matt Taylor
Location: Symmes Hall Lab 4
Fee: $125

Session: 3
Dates: July 19 - 23
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Matt Taylor
Location: Symmes Hall Lab 7
Fee: $125

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: June 28 - July 2
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Kelly Wright
Location: Symmes Hall Lab 9
Fee: $125

Session: 2
Dates: July 26 - 30
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Kristin LaRoy
Location: Symmes Hall Lab 8
Fee: $125

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: June 21 - 25
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Erin EuDaly
Location: Symmes Hall Lab 9
Fee: $125

Session: 2
Dates: August 2 - 6
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Erin EuDaly
Location: Symmes Hall Lab 9
Fee: $125

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 7 - 11
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Kristin LaRoy
Location: Symmes Hall Lab 3/5
Fee: $125

Session: 2
Dates: July 26 - 30
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Kristin LaRoy
Location: Symmes Hall Lab 8
Fee: $125

Curiosity Kids
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 12 - 16
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Joe Blizzard
Location: Symmes Hall Lab 3/5
Fee: $125

Looking for LEGO® Robotics?
See Pages 11-13
Completed Grades 1–2

**Solar System Explorers**
Your explorer will have an exciting week learning all about our solar system, constellations, and galaxies beyond our own as they make their very own solar system book. We will make solar system shirts, stars, moons, and space shuttles. Students will also learn about our space station and the upcoming mission to Mars.

**Dates:** June 7 - 11
**Times:** 9:00am - 12noon
**Completed Grades:** 1 and 2
**Instructor:** Susan Shaw
**Location:** Astronomy Classroom
**Fee:** $125

**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 of Conestee Nature Park.

**Session:** 1
**Dates:** July 19 - 23
**Times:** 9:00am - 4:00pm
**Completed Grades:** 1 and 2
**Instructor:** Tim Taylor
**Location:** Discovery Room B
**Fee:** $285

*Field trip is subject to availability of venue and may be cancelled or changed due to weather or other extenuating circumstances.*

**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 28 - July 2
**Times:** 9:00am - 4:00pm
**Completed Grades:** 1 and 2
**Instructor:** Stacey Merritt
**Location:** Symmes Hall Lab 10
**Fee:** $275

**Jurassic Giants**
Campers will go back in time exploring pre-history as they learn about the lives and extinction of dinosaurs by making their own dino book. They will use their imagination as they create a dinosaur and a dinosaur terrarium that they can watch grow all week. We will have fun with daily dino crafts and hands on activities!

**Session:** 1
**Dates:** June 14 - 18
**Times:** 9:00am - 12noon
**Completed Grades:** 1 and 2
**Instructor:** Susan Shaw
**Location:** Astronomy Classroom
**Fee:** $125

**Silly Slime**
Silly Slime! Gooey Gak! Flubber! Kids will explore and enjoy mixing simple ingredients to make over 25 different recipes, while learning the science behind the slimy wonder. We will make magnetic slime, glow in the dark slime, scented slime, edible slime, unicorn slime, and more!

**Session:** 1
**Dates:** June 21 - 25
**Times:** 9:00am - 12noon
**Completed Grades:** 1 and 2
**Instructor:** Madison Mann
**Location:** Astronomy Classroom
**Fee:** $125

**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 28 - July 2
**Times:** 9:00am - 12noon
**Completed Grades:** 1 and 2
**Instructor:** Tim Taylor
**Location:** Discovery Room A
**Fee:** $125

**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 about all kinds of flowery friends from near and far, and make fun projects to take home.

**Session:** 1
**Dates:** June 7 - 11
**Times:** 9:00am - 12noon
**Completed Grades:** 1 and 2
**Instructor:** Kyle Rollins
**Location:** Mineral Lab
**Fee:** $125

10% Members Receive a 10% Discount!
Calling All Superheroes
Have you ever wondered what it would be like to be a real superhero? This week we'll decide on our superhero names, make our own capes and masks, then complete challenges and solve puzzles. We'll practice leaping, throwing, and running to conquer an obstacle course, and learn about animals with super-vision, super-smell and super-strength. Join us for a super fun week!

Session: 1
Dates: June 14 - 18
Times: 9:00am - 12noon
Completed Grades: 1 and 2
Instructor: Erin EuDaly
Location: Symmes Hall Lab 9
Fee: $125

Magic Tree FULL DAY
House Adventure
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 19 - 23
Times: 9:00am - 4:00pm
Completed Grades: 2 and 3
Instructor: Lisa Dye
Location: Living History Farm
Fee: $275

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 learn about 1800s medicine, the present as we design a roller coaster and the future when we build a tower to the moon! It will be a fun week of hands-on investigation activities as we become Science Sleuths!

Session: 1
Dates: August 2 - 6
Times: 9:00am - 12noon
Completed Grades: 1 and 2
Instructor: Amy St. John
Location: Symmes Hall Lab 8
Fee: $125

Register Online
RoperMountain.org

Looking for LEGO® Robotics?
See Pages 11-13
Fast Pass to Roper Mountain
Can’t decide which camp you want to do? Then this camp is for you! We will spend each day on a different theme. From exploring outside on the Living History Farm to spending time in the Planetarium, each day you’ll get a Fast Pass to some of the best activities and a behind-the-scenes look at Roper Mountain Science Center.

Session: 1
Dates: June 7 - 11
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Donna Frank
Location: Symmes Hall Lab 9
Fee: $125

Session: 2
Dates: August 2 - 6
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Donna Frank
Location: Universe Classroom
Fee: $125

Scratch-Made Games
Future coders will venture into programming and computer science using the Scratch 3 online program. Learn some coding basics while you design various games and interactives using Scratch. This is a basic foundations course; little to no prior experience with coding or Scratch is preferred.

Session: 1
Dates: June 7 - 11
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Kyle Rollins
Location: Rainforest Classroom
Fee: $125

Session: 2
Dates: June 21 - 25
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Kyle Rollins
Location: Rainforest Classroom
Fee: $125

Rainforest Rangers
Explore the live Tropical Rainforest and join in on fun, hands-on activities. Meet a tree frog and then make a fun frog mask to take home! We’ll meet and hold other residents of the rainforest like tarantulas and ball pythons. We’ll make animal sculptures, rain sticks and more as we investigate exotic plants and sample tropical fruits.

Session: 1
Dates: June 14 - 18
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Kyle Rollins
Location: Rainforest Classroom
Fee: $125

Session: 2
Dates: June 21 - 25
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Kyle Rollins
Location: Rainforest Classroom
Fee: $125

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 12 - 16
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Anne Howell
Location: Symmes Hall Lab 8
Fee: $125

Session: 2
Dates: August 2 - 6
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Joe Blizzard
Location: Symmes Hall Lab 3/5
Fee: $125
Junior Web FULL DAY
Designers
There’s no better way to present a school project then with a well-designed webpage! Campers will learn how to design a webpage utilizing HTML and CSS foundational coding language. In addition to basic coding concepts, students will learn skills like organizing text and data on a web page, inserting images, using different fonts and colors, creating borders, and more! Get ready to impress your teachers as you “show what you know” in the form of an awesome webpage!
Session: 1
Dates: August 2 - 6
Times: 9:00am - 4:00pm
Completed Grades: 3 and 4
Instructor: Matt Taylor
Location: Symmes Hall Lab 2
Fee: $275

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: July 19 - 23
Times: 9:00am - 4:00pm
Completed Grades: 3 and 4
Instructor: Emilye Faust
Location: Universe Classroom
Fee: $275

Illusioneering
Calling future magicians! Come learn about basic illusions and the science (and trickery) behind them. Investigate magic props and even build a couple of your own. Understand the art of presenting and have a chance to design your own mini-magic show. Sign up before all of the spots disappear!
Session: 1
Dates: June 14 - 18
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Joe Blizzard
Location: Symmes Hall Lab 8
Fee: $125

Crazy Contraptions
Let your emerging creator shine in this fun and challenging camp! We will build chain reaction machines like those made famous by Rube Goldberg where a seemingly simple task is made unnecessarily complicated. Simple machines like ramps, levers, wheels and more will be used to make fun and innovative designs. You’ll put all your creativity together at the end the week with our big machine challenge!
Session: 1
Dates: July 26 - 30
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Val Mosher
Location: Symmes Hall Lab 3/5
Fee: $125

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: July 12 - 16
Times: 9:00am - 4:00pm
Completed Grades: 3 and 4
Instructor: Tim Taylor
Location: Discovery Room B
Fee: $295
Field trips are subject to availability of venue and may be cancelled or changed due to weather or other extenuating circumstances.

Olympian Adventure
Inspired by Rick Riordan’s Percy Jackson and the Olympians 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 camp is a week filled with fun!
Session: 1
Dates: June 7 - 11
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Caitlyn Drummond
Location: Universe Classroom
Fee: $125

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 7 - 11
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Erin EuDaly
Location: Symmes Hall Lab 10
Fee: $125

Field trips are subject to availability of venue and may be cancelled or changed due to weather or other extenuating circumstances.
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 edible slime, thermo chromic slime, magnetic slime, glow in the dark slime, and up to 20 more slime types!
Session: 1
Dates: June 28 - July 2
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Madison Mann
Location: Astronomy Classroom
Fee: $125

Art in Nature
Kids will experience the world around us in a deeper way through this nature-inspired outdoor and indoor art camp. We will use the power of observation to study plant and animal patterns, structures with microscopes, and unique features to sketch, paint, and create imaginative arts and crafts.
Session: 1
Dates: August 2 - 6
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Richane Robbins
Location: Design Lab
Fee: $125

Disaster Engineering
Push your skills and designs to the limits! Stop an avalanche, build a hurricane resistant structure, construct a tower of power, and figure out the best solutions to engineering challenges. We’ll design, build, destroy, and build! Come use your creative skills to save the day!
Session: 1
Dates: June 28 - July 2
Times: 9:00am - 12noon
Completed Grades: 4 and 5
Instructor: Susan Shaw
Location: Symmes Hall Lab 4
Fee: $125

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 use science to make it all come alive. You will make it happen as you live out your movie dreams!
Session: 1
Dates: July 19 - 23
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Joe Blizzard
Location: Symmes Hall Lab 3/5
Fee: $125

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 21 - 25
Times: 9:00am - 12noon
Completed Grades: 4 and 5
Instructor: Dana Lackey
Location: Living History Farm
Fee: $125

Sketch, Carve, Create
Using relief printmaking methods we will develop our art work from sketch, carve our own relief block and bring our masterpiece to life through paper and fabric printing. We will discover new terminology and relief printing methods as we experiment and add to our sketch book. Each student will create foam and carved rubber blocks. We will finish our week by printing t-shirts.
Session: 1
Dates: June 21 - 25
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Kristin LaRoy
Location: Symmes Hall Lab 3/5
Fee: $125

Looking for LEGO® Robotics?
See Pages 11-13

Members Receive a 10% Discount!
Myth & Magic  New!  You’re the hero in our Myth and Magic on the mountain camp! We’ll learn about some of the greatest heroes from page and screen, like Harry Potter, Percy Jackson, Moana, Rey and others as we identify the story-telling elements of a hero’s quest. Throughout the week, you’ll embark on your own hero’s journey, take on epic quests and gather legendary tools to help you on your way.

**Session:** 1
**Dates:** June 14 - 18
**Times:** 9:00am - 12noon
**Completed Grades:** 4 and 5
**Instructor:** Jasmin Poor
**Location:** Universe Classroom
**Fee:** $125

Web Architects  **FULL DAY**
Learn today what you can build for the future! This course teaches campers how to use the foundational language of web site coding, HTML and CSS, to create awesome websites. By the end of the week, our architects will be able to construct a website with interactive features that gives them skills to take to their future classrooms for project based learning opportunities.

**Session:** 1
**Dates:** June 21 - 25
**Times:** 9:00am - 4:00pm
**Completed Grades:** 4 and 5
**Instructor:** Michael Simmons
**Location:** Symmes Hall Lab 4
**Fee:** $275

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 12 - 16
**Times:** 9:00am - 12noon
**Completed Grades:** 4 and 5
**Instructor:** Maggie Connelly
**Location:** Astronomy Classroom
**Fee:** $125

Galactic Hackers  **FULL DAY**  New!
This is the Star Wars Maker Camp You’re Looking For
Not that long from now at a mountain close to you, join us as we unlock the science and technology of a galaxy far, far away. Explore the world of Star Wars through investigation, design challenges, coding and more. From light sabers and droids to characters and creatures, the Force will be with you as you make these worlds your own.

**Session:** 1
**Dates:** June 28 - July 2
**Times:** 9:00am - 4:00pm
**Completed Grades:** 4 and 5
**Instructor:** Joe Blizzard
**Location:** Symmes Hall Lab 3/5
**Fee:** $275

Castles & Catapults
Calling all Lords and Ladies to the round table! Discover the fascinating world of knights and the Middle Ages as teams of students design their catapult and use it to try and bring down another team’s castle. Squires in training will design their own coat of arms and attach it to a shield they build. We will learn archery, try our luck in a jousting obstacle course, and end our quest with a Medieval Faire

**Session:** 1
**Dates:** August 2 - 6
**Times:** 9:00am - 12noon
**Completed Grades:** 4 and 5
**Instructor:** Jenn Romatelli
**Location:** Astronomy Classroom
**Fee:** $125

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, plant identification and other fundamental skills through hands-on activities. Bring your sense of adventure!

**Session:** 1
**Dates:** July 19 - 23
**Times:** 9:00am - 12noon
**Completed Grades:** 4 and 5
**Instructor:** Glenn Sparkman
**Location:** Symmes Hall Lab 10
**Fee:** $125

**Session:** 2
**Dates:** July 26 - 30
**Times:** 9:00am - 12noon
**Completed Grades:** 4 and 5
**Instructor:** Glenn Sparkman
**Location:** Symmes Hall Lab 10
**Fee:** $125

Spy Academy
Dive into the secret world of spies when you spend a thrilling week at Spy Academy! Our operatives-in-training will create spy gadgets, heighten their observation skills, conduct covert operations, use cryptic codes and ciphers as they learn what it takes to be successful spies. Your mission is ready if you choose to accept it!

**Session:** 1
**Dates:** June 14 - 18
**Times:** 9:00am - 12noon
**Completed Grades:** 4 and 5
**Instructor:** Anne Howell
**Location:** Symmes Hall Lab 3/5
**Fee:** $125

**Session:** 2
**Dates:** July 19 - 23
**Times:** 9:00am - 12noon
**Completed Grades:** 4 and 5
**Instructor:** Anne Howell
**Location:** Symmes Hall Lab 4
**Fee:** $125
Project Discovery
Like to experiment? Want to make stuff stronger, lighter, faster, 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: June 21 - 25
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Val Mosher
Location: Symmes Hall Lab 10
Fee: $125

Early American Farm Life
Travel back in time to the 1800's Living History Farm where we will cook some delicious treats 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 some 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 7 - 11
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Dana Lackey
Location: Living History Farm
Fee: $125

Art Entrepreneurs - New!
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: July 12 - 16
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Bronwyn White
Location: Universe Classroom
Fee: $125

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.
Designer - Design your own creations
Session: 1
Dates: June 7 - 11
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Ken Morrill
Location: Symmes Hall Lab 8
Fee: $125

Designer - Design your own creations
Session: 2
Dates: June 21 - 25
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Chris Beyerle
Location: Symmes Hall Lab 8
Fee: $125

Mars Challenge - Design a Mars colony
Session: 1
Dates: June 28 - July 2
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Chris Beyerle
Location: Symmes Hall Lab 8
Fee: $125

Theme Park - Design and build a working theme park
Session: 1
Dates: July 19 - 23
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Ken Morrill
Location: Symmes Hall Lab 8
Fee: $125

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 lunchstay and/or general camp assistance as needed.
Volunteers must:
• Be at least 14 years old as of June 1, 2021
• 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
Volunteer opportunities are limited. Students will be selected and placed into camps based on their availability and our volunteer needs. When possible, we will match volunteers with their preferred camps.

Find the volunteer application on our website at RoperMountain.org

Register Online
RoperMountain.org
Drone Tech Flight School
Pilots ready! Enter the exciting world of drone technology. You will learn how to build, fly, and repair a first person view (FPV) racing drone. From soldering the components to the maiden flight, and various challenges, campers will learn about electronics and robotics in a new and exciting way.

Session: 1
Dates: June 14 - 18
Times: 9:00am - 12noon
Completed Grades: Ages 12 and up
Instructor: Ken Morrill
Location: Symmes Hall Lab 10
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 in Animal Care.

Session: 1
Dates: August 2 - 6
Times: 9:00am - 12noon
Completed Grades: Ages 12 and up
Instructor: Dave Grubaugh
Location: Discovery Room B
Fee: $125

Creative Carpentry
It’s tool time! Whether you’re mom and dad’s handy helper or an experienced weekend fort builder, this camp will teach you how to apply real-life woodworking skills to fun projects. After completing a safety skills assessment, we’ll use tools like hand saws, drill drivers, files, hammers, clamps, orbital sanders, a miter saw, a palm router, a drill press, and a shaper to make a birdhouse, ping pong ball shooter and a name carved plaque.

Prior to camp start, parents must complete a “Safety Release and Permission to Use the Tools & Machines” form.

Session: 1
Dates: July 26 - 30
Times: 9:00am - 4:00pm
Completed Grades: Ages 12 and up
Instructor: Rick Schwartz
Location: Astronomy Classroom
Fee: $275
### 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>Course</th>
<th>No Experience Required</th>
<th>Experience Preferred</th>
<th>WeDo 1.0 Platform</th>
<th>WeDo 2.0 Platform</th>
<th>NEW! Spike Prime Platform</th>
<th>EV3 Platform</th>
<th>Focus on Building</th>
<th>Focus on Programming</th>
<th>Advanced Programming</th>
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<td>Mission to Mars Grades 5, 6, 7</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, a rescue 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 7 - 11
- Times: 9:00am - 12noon
- Completed Grades: 1 and 2
- Instructor: Kim Roberts
- Location: Symmes Hall Lab 1
- Fee: $125

**Session: 2**
- Dates: June 21 - 25
- Times: 9:00am - 12noon
- Completed Grades: 1 and 2
- Instructor: Kathie Fox
- Location: Symmes Hall Lab 1
- Fee: $125

**Session: 3**
- Dates: June 28 - July 2
- Times: 9:00am - 12noon
- Completed Grades: 1 and 2
- Instructor: Coby Dixon
- Location: Symmes Hall Lab 1
- Fee: $125

**Session: 4**
- Dates: July 19 - 23
- Times: 9:00am - 12noon
- Completed Grades: 1 and 2
- Instructor: Coby Dixon
- Location: Symmes Hall Lab 1
- Fee: $125

**Session: 5**
- Dates: August 2 - 6
- Times: 9:00am - 12noon
- Completed Grades: 1 and 2
- Instructor: Kathie Fox
- Location: Symmes Hall Lab 1
- Fee: $125
Inventing with LEGO Spike Prime

Invention Challenges+ You as the Engineer= Inventioneering! Using the NEWEST LEGO® Spike Prime kits, you'll design and build LEGO® robots for challenging scenarios. Learn how to control motors and use sensors to collect data. Once you master the basics, we’ll move to more advanced design challenges! How can you design and build a handheld grabber tool? An automated guided bot? 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 14 - 18
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Val Mosher
Location: Symmes Hall Lab 2
Fee: $125

Session: 2
Dates: June 21 - 25
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Coby Dixon
Location: Symmes Hall Lab 7
Fee: $125

Session: 3
Dates: June 28 - July 2
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Coby Dixon
Location: Symmes Hall Lab 1
Fee: $125

Ultimate LEGO Builds & Bots

Ready to take your LEGO® robotics building to the next level? This camp is for you! Campers will build larger and more complex robots including a tower crane, a ferris wheel and a remote control car! Students will also design their own themed working robots to share with their classmates. This camp builds on our Beginner Robotics program and is recommended for students who love building and are interested in learning basic programming.

Session: 1
Dates: July 19 - 23
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Kathie Fox
Location: Symmes Hall Lab 1
Fee: $125

Session: 2
Dates: July 26 - 30
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Kathie Fox
Location: Symmes Hall Lab 1
Fee: $125

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 14 - 18
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Kathie Fox
Location: Symmes Hall Lab 1
Fee: $125

Session: 2
Dates: June 28 - July 2
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Coby Dixon
Location: Symmes Hall Lab 1
Fee: $125

Session: 3
Dates: July 12-16
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Coby Dixon
Location: Symmes Hall Lab 1
Fee: $125

New! LEGO® Robotics
LEGO® Robotics

**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 14 - 18
- **Times:** 9:00am - 12noon
- **Completed Grades:** 5, 6, 7
- **Instructor:** Carrie McConnell
- **Location:** Symmes Hall Lab 7
- **Fee:** $125

**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 Sumo bots and the week will culminate with a Sumo bot tournament.

- **Session:** 1
- **Dates:** July 26 - 30
- **Times:** 9:00am - 12noon
- **Completed Grades:** 5, 6, 7
- **Instructor:** Matt Taylor
- **Location:** Symmes Hall Lab 7
- **Fee:** $125

**Robot Builder Boot Camp**
Calling all LEGO® robot builder enthusiasts! We’re looking for a few good recruits to come join our ranks to build some amazingly awesome bots. These are not your little brother or sister’s robots! Ready to rock n’ roll? Build a robotic guitar! Do you doodle? Build a Doodle-Bot! Or are you inspired by nature? We even have puppy and bunny bots. Of course, no bot boot camp would be complete without a reptilian raptor complete with fangs! Build, play, explore! Booyah!

- **Session:** 1
- **Dates:** August 2 - 6
- **Times:** 9:00am - 12noon
- **Completed Grades:** 4 and 5
- **Instructor:** Coby Dixon
- **Location:** Symmes Hall Lab 7
- **Fee:** $125

**Robot Academy**
Campers will be introduced to the LEGO® EV3 robotics technology. They will 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.

- **Session:** 1
- **Dates:** June 7 - 11
- **Times:** 9:00am - 12noon
- **Completed Grades:** 4 and 5
- **Instructor:** Coby Dixon
- **Location:** Symmes Hall Lab 7
- **Fee:** $125

**Robot Inventor**
Can you design a robot to take someone up the stairs or draw a picture? Creativity and programming meet in this camp! Using EV3 Robotics, students will design, build, and program robots to achieve tasks, complete challenges and take their design thinking skills to the next level.

- **Session:** 1
- **Dates:** July 12 - 16
- **Times:** 9:00am - 12noon
- **Completed Grades:** 4 and 5
- **Instructor:** Carrie McConnell
- **Location:** Symmes Hall Lab 7
- **Fee:** $125

Support Roper Mountain and enjoy benefits by becoming a member!

**Benefits Include:**
- Free admission to Friday Starry Nights, Summer Adventure, and select special events
- Discounted admission to Planetarium Laser Shows
- Summer Camp discounts and early registration
- Program and events discounts as noted on the website
- Admission to over 300 science centers and museums worldwide. Visit the Association of Science-Technology Centers and choose Passport Program to find participating facilities

**Register Online**
RoperMountain.org
OUR COMMUNITY PARTNERS

We gratefully acknowledge these individuals, foundations, organizations and corporations whose annual gifts have helped to support Roper Mountain Science Center.

**VISIONARY - $20,000+**
- ABB
- Bosch Rexroth
- Duke Energy Foundation
- Fluor Golf For Greenville
- Greater Greenville Sanitation
- Greenville Evening Rotary Charities, Inc.
- Greenville Water
- John I. Smith Charities
- The Late Dr. Ernest and Mrs. Betty Latham
- Lockhead Martin Corporation
- Michelin Charity Golf Tournament
- Piedmont Arthritis Clinic, PA
- ReWa
- Symmes Foundation

**EXPLORER - $15,000**
- BMW Manufacturing
- Community Foundation of Greenville
- Fluor Foundation
- GE

**ADVENTURER - $5,000**
- Chick Fil-A of Pelham Road
- Nexeo Plastics
- South Carolina Charities, Inc.
- State Farm Insurance

**INNOVATOR - $2,500**
- AFL Global
- Piedmont Natural Gas
- SC Humanities

**ORIGINATOR - $1,000**
- The Greater Greenville Master Gardeners Association
- The Late Darrell and Mrs. Georgia Harrison
- Eric Olson and Carla Rivero-Olson
- Publix Super Markets Charities
- Jim and Barbara Street

**CREATOR - $500**
- Adrian and Angela Clapp
- Gilda and Ann DeStaercke
- Lance and Amanda Feldman
- Tom and Linda Hamilton
- Nathan and Moira Hanna
- Les and Kay Knight
- Jeffrey and Mary Lawson
- Mike and Ashley Pastore
- Ron and Tommie Reece
- Nathan and Caitlin Steelman Christopher Greene and Meghan Vella

**BUILDERS - $150**
- Michael and Diana Granger
- Mac and Lindsay Horton
- Mark and Margaret Keating
- Seid W. King and Jacqueline P. Vieux
- David and Cynthia Laursen
- Darrell and Shavada Lee
- T.J. and Ann Marks
- Clifford Martin and Donna Lacombe
- Chris and Kim Mazur
- Neely and Jayne McClain
- Jeremy and Kacy Mehlem
- George and Holly Murphy Jr.
- Carrie Norell
- Adam Paschang and Lena Maslennikova
- Harry and Dawn Reider
- Matthew and Kate Rogers
- William and Courtney Russo
- Tony and Jane Shiavone
- Hoke Smart and Gail Fortner
- Chris and Walker Smith
- Dick and Caroline Stewart
- Daniel and Brenda Vance
- Benjamin and Taylor Vaughn
- Stefan Voss
- Joel and Heather Weber
- Modi Wetzler and Julia Brumahim
- Robert and Madison Wilson
- Adam and Sarah Beth Wood
- Xiaqing Yang and Carolyn Yunyao Xiao
- David Young and Cheryl Hall

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- Discounted admission to Planetarium Laser Shows
- Summer Camp discounts and early registration
- Program and events discounts as noted on the website
- Admission to over 300 science centers and museums world wide. Visit the Association of Science-Technology Centers and choose Passport Program to find participating facilities

Visit RoperMountain.org to join today!
Summer Adventure
June 1 – August 14
10:00am – 4:00pm • Tuesday – Saturday

Buy tickets online at RoperMountain.org. Pre-purchase is recommended!
$12.00 per adult, $10.00 per child (age 4-12), FREE for RMSC members and children 3 and under. Tickets are non-refundable.

- Explore our new building & exhibits including the Orientation, Nature Exchange, Our Water Story, and Sustainable Future
- Encounter traveling exhibit “BE THE DINOSAUR”
- Pet a stingray in our Marine Lab
- Discover our Living History Farm
- Visit the new Outdoor Dinosaur Trails
- And so much more...
Back by popular demand are your favorite bands set to lasers in the Planetarium. Cool off for two weeks in August with the following shows:

**August 5**
- 5:30pm Laser Pop Rox
- 7:30pm Pink Floyd: The Wall
- 9:30pm Laser Queen

**August 6**
- 5:30pm Laser Beatles
- 7:30pm Laser Bowie
- 9:30pm Pink Floyd: Welcome to the Machine

**August 7**
- 5:30pm That 80’s Laser Show
- 7:30pm Laser Zeppelin: Whole Lotta Led
- 9:30pm Laser Prince

**August 12**
- 5:30pm That 90’s Laser Show
- 7:30pm Pink Floyd: The Vision Bell
- 9:30pm Beatles: Sgt Peppers Laser Light Show

**August 13**
- 5:30pm Movie Madness
- 7:30pm Laser Motown
- 9:30pm Laser Zeppelin: Lased and Confused

**August 14**
- 5:30pm Laser Pop Rox
- 7:30pm Laser Queen
- 9:30pm Pink Floyd: Dark Side of the Moon

Buy tickets online at RoperMountain.org. Seating is limited. Pre-purchase is recommended!
Summer Exploration Camps
Roper Mountain Science Center

Register Online at RoperMountain.org

Members only online registration
Monday, March 15 beginning at 7:00am

Public online registration
Wednesday, March 17 beginning at 8:00am

Due to current COVID-19 protocols, registration is online only.

If further assistance is needed, please call 864-355-8925 or email liphilli@greenville.k12.sc.us.