

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

Register Online at RoperMountain.org

Members only online registration Monday, February 20 through Wednesday, February 22

Monday, February 20 is online member registration only, beginning 7:00am. No walk-in registration.

Public registration opens online Thursday, February 23 at 8:00am.

Butterfly Adventure June 1 - July 7, 2017

- Explore our butterfly habitat
- Encounter hundreds of butterflies
- Pet a stingray in our Marine Lab
- Discover our Living History Farm
- And so much more...









Summer 2017

Activity-based camps that mix learning and fun!

RoperMountain.org





This guide lists all the different hands-on camps offered in Roper Mountain labs, habitats and classrooms. Camps are arranged by the grade your student will complete at the end of this school year. Each camp is filled with exciting activities and materials, many of which campers can take home to extend their experience.

Camp Staff: Instructional staff are professional educators.

Daily Snack: A snack and reusable water bottle are provided for all camps. While we make every effort to avoid allergens, snacks are not guaranteed to be allergen free. You are welcome to send alternate snacks with your child.

Camp Size: Camps are limited to 16 students or less.

Fees: See camp descriptions.

Full Day Camps: Campers should bring a lunch and drink each day. These are not provided. Dress in layers to be comfortable in cool indoor and hot outdoor temperatures, as students will likely spend time outside (weather permitting). Please wear footwear appropriate for outdoor activity (no flip-flops or backless sandals).

Early Drop Off & Lunch Bunch: page 8

Medication Policy: Staff cannot administer medication to students. The only exception to this rule is in the event of an allergy emergency. Students with allergies must keep their medication and written treatment instructions with them at all times.

Behavior Expectations: Campers are required to participate in all camp activities, use appropriate language and show respect for teachers, staff, other campers and the facility. Bullying and violence will not be tolerated. . Students who do not exhibit proper behavior will have parents contacted and may be dismissed from camp if behavior is not improved.



Welcome!

We're ready for summer fun here at Roper Mountain! Our **Summer Exploration Camps** feature more than 95 camps in a wide range of topics for students from completed K4 through 9th grade. With returning favorites and more than 30 new camps on the schedule, there's something for everyone!

The very popular **Butterfly Adventure** also returns this summer! Starting Thursday June 1st through Friday July 7th, you'll have the opportunity to immerse yourself in our habitat of hundreds of butterflies and visit Harrison Hall, the Living History Farm and Wildwood, our new natural play area.

The newly renovated T.C Hooper Planetarium will also be open this summer featuring a new 360° full immersion dome with 4K projection system, new sound system and new lighting. **Summer Adventures** in the Planetarium are now free for Roper Mountain members!

We'll close out our summer with an **Eclipse Extravaganza!** Greenville County will be in the path of totality for an awe-inspiring eclipse of the sun on Monday, August 21st, 2017. We'll be open Saturday August 19th, Sunday August 20th and Monday August 21st from 10:00am to 5:00pm with a full slate of hands-on activities throughout the whole science center, programs, planetarium shows and observatory viewing for our visitors. We hope you will join us for this once-in-a-lifetime celestial event!

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 Completed Grades K5 - 1 Completed Grades 1 - 2 Completed Grades 2 - 3 Completed Grades 2 - 4	1	
Completed Grades K5 - 1	1, 2	2
Completed Grades 1 - 2	3, 4	4
Completed Grades 2 - 3	4,	5
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Ages 12+	12,	13
Boy Scout Merit Badges		
Girl Scout Merit Badges	14	
LEGO® Robotics	15,	16, 17

New!



Completed Grades K4–K5

Fairy Tales at Roper Mountain Octonaut's Ocean

We'll listen to some classic fairy tales, then explore the wooded trails, tree houses, gardens and a bridge that would be perfect for a hiding troll! Campers will create arts and crafts based on the fairy tale of the day. We will also sing songs and play games and act them out with puppets, too. Fairy tales will include "Jack and the Beanstalk." "Little Red Riding Hood," "The Three Little

Pigs," and more. Session: 1 Dates: July 17-21

Times: 9:00am - 12noon Completed Grades: K4 and K5 **Instructor:** Leslie Baxley Location: Mineral Lab

Cost: \$115

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 ocean habitats. Then we'll have fun with daily crafts or hands-on activities.

Session: 1

Cost: \$115

Dates: July 31 - August 4 Times: 9:00am - 12noon Completed Grades: K4 and K5 Instructor: Leslie Baxley Location: Marine Lab

Very Hungry CaterpillarBased on the Eric Carle book, *The Very* Hungry Caterpillar, campers will study his unique style of illustration while we explore caterpillars and compare what they eat in the book to our host plants here in South Carolina. We'll visit the Butterfly Garden and see if we can find signs of butterflies and caterpillars around the mountain. Learn about the life stages of a butterfly and create some crafts to represent each stage.

Session: 1 Dates: July 10-14 Times: 9:00am - 12noon Completed Grades: K4 and K5 Instructor: Leslie Baxley Location: Mineral Lab

Cost: \$115

Completed Grades K5-1

Mini Meteorologist

Do you love learning about the weather? Then this is the camp for you. We will look at weather by season and research what to expect in spring, summer, fall and winter. We'll explore various weather conditions with hands-on experiments. Family and friends are invited the last day of camp to watch us re-enact our favorite weather conditions as mini-meterologists!

Session: 1

Dates: June 12-16 **Times:** 9:00am - 12noon Completed Grades: K5 and 1 Instructor: Leslie Baxley Location: Symmes Hall Lab 3

Cost: \$115

Kitchen Chemistry

Cook up some chemistry fun and discover all the science experiments that lurk in the kitchen. Students will be encouraged to "play" with their food, make a soda fountain, and use basic items to explore chemistry! Basic safety techniques for common items found in the kitchen will also be introduced.

Session: 1 Dates: June 12-16 Times: 9:00am - 12noon Completed Grades: K5 and 1 **Instructor:** Jennifer Brown Location: Symmes Hall Lab 4

Cost: \$115

Session: 2 Dates: June 12-16 Times: 1:00pm - 4:00pm Completed Grades: K5 and 1 Instructor: Jennifer Brown Location: Symmes Hall Lab 4

Cost: \$115

Kids Create! Nature by Design

Students will explore the amazing colors, shapes, lines, and textures found throughout nature from the tiniest of creatures to giant planets in outer space! From drawing and painting to collage and paper mache, we will focus on fun designs each day and be inspired by nature to create our own works of art. The week will culminate with a class exhibit to share our work with family and friends!

Session: 1 Dates: July 10-14 Times: 9:00am - 12noon Completed Grades: K5 and 1 Instructor: Bronwyn White Location: Symmes Hall Lab 2

Cost: \$115

Session: 2 Dates: July 10-14 **Times:** 1:00pm - 4:00pm Completed Grades: K5 and 1 Instructor: Bronwyn White Location: Symmes Hall Lab 2





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 5-9
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Todd Childers
Location: Symmes Hall Lab 2
Cost: \$115

Session: 2 Dates: June 5-9 Times: 1:00pm - 4:00pm

Completed Grades: K5 and 1 Instructor: Todd Childers Location: Symmes Hall Lab 2

Cost: \$115

Session: 3

Dates: July 31-August 4
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Todd Childers
Location: Symmes Hall Lab 3
Cost: \$115

.

Session: 4

Dates: July 31-August 4 Times: 1:00pm - 4:00pm Completed Grades: K5 and 1 Instructor: Todd Childers Location: Symmes Hall Lab 3

Cost: \$115

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!

New!

Session: 1

Dates: June 26-30 Times: 9:00am - 12noon Completed Grades: K5 and 1 Instructor: Kelly Wright Location: Symmes Hall Lab 3

Cost: \$115

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 so much fun gardening in our huge vegetable and fruit garden and enjoy fresh, healthy snacks right from the garden to reward our efforts. There will be funny farm stories and silly games, along with great crafts and projects to take home. Each day will bring new excitement with our sheep, chickens, cow and horse, and fun digging in the garden.

Session: 1

Dates: July 24-28 **Times:** 9:00am - 12noon **Completed Grades**: K5 and 1

Instructor: Lisa Dye

Location: Living History Farm

Cost: \$115



Jungle Tales

Come explore our thriving rainforest and meet our many jungle friends. Each day you will encounter live animals like Flora the iguana, Tilly our umbrella cockatoo, snakes and insects. Investigate our tropical plants, take home a tropical butterfly plant, make your own rain stick, and have fun with other activities and games. Each day of discovery will conclude with tasty tropical treats and a jungle tale!

Session: 1
Dates: July 10-14
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Anne Howell
Location: Rainforest Classroom

Cost: \$115

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 19-23 Times: 9:00am - 12noon Completed Grades: K5 and 1 Instructor: Kelly Wright Location: Symmes Hall Lab 3

Cost: \$115

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: July 24-28
Times: 9:00am - 12noon
Completed Grades: K5 and 1
Instructor: Gena Greer
Location: Symmes Hall Lab 2

Cost: \$115

Session: 2 Dates: July 24-28 Times: 1:00pm - 4:00pm Completed Grades: K5 and 1 Instructor: Gena Greer Location: Symmes Hall Lab 2



Completed Grades 1–2

Padawan Academy

Are you strong with the force? Star Wars and sci-fi fans are invited to come begin their own Hero's Journey! Campers will explore the world of Star Wars as they learn about the science and story of the movies and shows. May the force be with us as we learn the ways of the Jedi and have fun in the process!

Session: 1 Dates: July 17-21

Times: 9:00am - 12noon Completed Grades: 1 and 2 Instructor: Joe Blizzard Location: Shelter 7/8

Cost: \$115

Session: 2 Dates: July 17-21

Times: 1:00pm - 4:00pm Completed Grades: 1 and 2 **Instructor:** Joe Blizzard **Location:** Shelter 7/8

Cost: \$115

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, students will also search for evidence of animal activity in our forest and pond through discovery hikes, outdoor hunts and take-home projects.

Session: 1 Dates: July 10-14 **Times:** 9:00am - 12noon Completed Grades: 1 and 2 **Instructor:** Tim Taylor Location: Discovery Room A

Cost: \$115

Session: 2 Dates: August 7-11 **Times:** 9:00am - 12noon Completed Grades: 1 and 2 **Instructor:** Tim Taylor Location: Discovery Room A

Cost: \$115

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 5-9

Times: 9:00am - 4:00pm Completed Grades: 1 and 2 **Instructor:** Donna Frank Location: Symmes Hall Lab 9

Cost: \$265

Session: 2 Dates: June 12-16

Times: 9:00am - 4:00pm Completed Grades: 1 and 2 Instructor: Kelly Wright Location: Symmes Hall Lab 9

Cost: \$265



Jurassic Giants FULL DAY

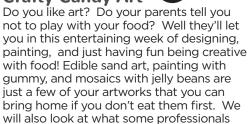
Campers will explore pre-history as they create their own dinosaurs in a habitat they build and watch grow, and become a dinosaur in a play. They will explore the lives and extinction of dinosaurs, make their own fossils and learn how paleontologists work at dig sites. Campers will team up to build Jurassic roller coasters, adding "dino twists" as they go, then test and modify their designs.

Session: 1

Dates: July 24-28 Times: 9:00am - 4:00pm Completed Grades: 1 and 2 **Instructor:** Susan Shaw Location: Paleo Lab

Cost: \$265

Crafty Candy Art



artist in you!

This camp is not recommended for students with

have created and see what may inspire the

food allergies. Session: 1

Dates: June 26-30 Times: 9:00am - 12noon Completed Grades: 1 and 2 Instructor: Donna Frank Location: Symmes Hall Lab 2

Cost: \$115

Session: 2

Dates: July 31-August 4 Times: 9:00am - 12noon Completed Grades: 1 and 2 Instructor: Donna Frank Location: Symmes Hall Lab 2

Cost: \$115

Solar System Explorers FULL DAY

Campers will learn all about our solar system, constellations and galaxies beyond our own as they make sundials, moon craters, and "space globes". We'll visit the Planetarium to learn about the constellations, and then make one of our own to take home. We'll visit the Observatory to safely view the sun. Students will write their own lines for a play

they'll perform for you! Session: 1

Dates: June 19-23 Times: 9:00am - 4:00pm Completed Grades: 1 and 2 Instructor: Susan Shaw Location: Symmes Hall Lab 4

Cost: \$265

Looking for **LEGO®** Robotics? See Pages 15-17



Completed Grades 1-2

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 children try on period costumes and make and play parlor games. We will help with house, barn and garden chores, including picking garden vegetables and mountain fruit.

Session: 1 Dates: July 17-21

Times: 9:00am - 12noon Completed Grades: 1 and 2

Instructor: Lisa Dye Location: Living History Farm

Cost: \$115

Pirates and Buccaneers

Ahoy matey! Discover the world of pirates, privateers and buccaneers. Campers will explore life as a brigand, pirate language, and the pirate code of conduct. Discover how pirates used the stars to navigate the high seas. We'll 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: July 31-August 4 Times: 1:00pm - 4:00pm Completed Grades: 1 and 2 **Instructor:** Leslie Baxley Location: Marine Lab

Cost: \$115

Young Engineers FULL DAY **Academy**

Young Engineers, get ready to design and create a variety of structures, boats, cars, flying machines, 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. They will also learn to work in groups to cooperate and create together. This is the chance for Young Engineers to blossom and grow and learn to meet the challenges before them with confidence!

Session: 1

Dates: June 26-30 Times: 9:00am - 4:00pm Completed Grades: 1 and 2 Instructor: Susan Shaw Location: Symmes Hall Lab 4

Cost: \$265

Members Receive a 10%

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 31-August 4 Times: 9:00am - 4:00pm Completed Grades: 1 and 2 **Instructor:** Tim Taylor Location: Ecology Lab

Cost: \$265



Completed Grades 2–3

Globetrotters

Now boarding... Around the World Airlines to taste, smell, see, hear and touch countries around the globe. We will travel to the continents of Australia, Asia, Europe, Africa and South America. From playing games, like mancala in Africa, to tasting delicious gelato from Italy and parading in Peruvian style, you will have the trip of a lifetime. Don't forget to get your passport stamped in over 12 countries! Fasten your seatbelt and lock your tray table because it's time to take off!

New!

Session: 1

Dates: June 26-30 Times: 9:00am - 12noon Completed Grades: 2 and 3 **Instructor:** Tory Pennington Location: Symmes Hall Lab 10

Cost: \$115

Create & Animate

Through art and technology, campers will have the opportunity to use the illusion of motion to create original claymation movies. Creative and detailoriented students will find th is camp an exciting exploration of the world of animation. Participants will learn about the history of animation, and create their own background scenery and clay figures to illustrate their story. Through stop-action production, technology will make each story come alive!

Session: 1 Dates: June 12-16 Times: 9:00am - 12noon Completed Grades: 2 and 3 Instructor: Lori Larsen

Location: Symmes Hall Lab 2

Cost: \$115

Robotix Challenge FULL DAY

Girls and boys will become "Robonauts" to design and build model robots to undertake simulated missions including rescue, exploration and more. Challenges will include firefighting, an automated kitchen of tomorrow, repairing a space station, automating a cookie factory, diving to the Titanic, robotic Olympics, robotic animals and others. The camp will use the Robotix assembly kits which snap together, and support a wide variety of machines.

Session: 1 Dates: June 5-9

Times: 9:00am - 4:00pm Completed Grades: 2 and 3 Instructor: Bill Bradshaw Location: Universe Classroom &

Workshop Cost: \$265



Completed Grades 2–3

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: June 5-9
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Latongia Pepper
Location: Symmes Hall Lab 10

Cost: \$115

Fast and Furious

Become a junior engineer and design speedy motion machines. Create model cars and planes using rubber bands, bottles, balloons, and other unexpected materials. Protect your passengers in our crash test and egg drop. Design, build, and test zip line racers that glide through the air with ease. Buckle up for a week of fast, furious fun! Session: 1

Dates: July 24-28 Times: 9:00am - 12noon Completed Grades: 2 and 3 Instructor: Tommy Wilkinson Location: Symmes Hall Lab 7

Cost: \$115

Little House on the Farm II

Students will try their hand at the chores, crafts, and way of life that Laura Ingalls and her family experienced. From berry picking to writing with quill pens, laundry with a washboard, cooking on the hearth, and simple sewing, the students will explore activities similar to what the books portray. Little House I camp is not required.

Session: 1

Dates: July 17-21 Times: 1:00pm - 4:00pm Completed Grades: 2 and 3 Instructor: Lisa Dye

Location: Living History Farm

Cost: \$115

Campers will develop their observation skills by keeping nature field journals that we make ourselves! We'll use our journals for quick sketches and notes about plants and animals around Roper Mountain. Then we'll develop our sketches into full-color drawings, paintings, collages, etc. and really let our imaginations run wild!

Session: 1

Dates: July 31-August 4 Times: 1:00pm - 4:00pm Completed Grades: 2 and 3 Instructor: Katie Steenerson Location: Symmes Hall Lab 4

Art in the Field

Cost: \$115

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 be a part of a magic show on the last day. What are you waiting for? Sign up before all of the spots disappear!

Session: 1

Dates: June 19-23 Times: 9:00am - 12noon Completed Grades: 2 and 3 Instructor: Joe Blizzard Location: Symmes Hall Lab 2

Cost: \$115

Away We Grow!

Your budding botanist 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 here and from far away, and then we'll use them to make fun projects. Using the book What Shall I Grow Today?, campers will create exciting botany crafts to take home.

Session: 1

Dates: July 31-August 4
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Kyle Rollins

Location: Rainforest Classroom

Cost: \$115

FULL DAY

Magic Tree House Adventure

Go back in time or to distant lands with Jack and Annie! We'll go on magical journeys to faraway lands and ages past: Ancient Greece, Japan and to the moon! Explore the Amazon Jungle, Ancient Rome and more through hands-on activities, discovery and imagination!

Session: 1

Dates: July 10-14

Times: 9:00am - 4:00pm Completed Grades: 2 and 3

Instructor: Lisa Dye **Location:** Shelter 3

Cost: \$265

Rainforest Rangers

Explore the live Tropical Rainforest and join in on fun, hands-on activities. Meet a green iguana and other live creatures of the forest. Make and take crafts like a rainstick, discover exotic plants, sample tropical fruits and do scavenger hunts in our rainforest.

Session: 1 Dates: July 17-21

Times: 9:00am - 12noon **Completed Grades:** 2 and 3 **Instructor:** Kyle Rollins

Location: Rainforest Classroom

Cost: \$115

Completed Grades 2-4

Junior Master FULL DAY Gardener



What is growing, green, budding and fun? Come to the Junior Master Gardener camps and find out!

Week 1: Investigate earthworms with "The Worm Lady," prepare your own treats with products from the garden, and experiment with lasagna gardening. We'll take a great field trip to a local farm!

Week 2: Create "Grow Greeting Cards," make a Toad Abode, and go on an insect scavenger hunt with tools you made! We'll take a fun field trip to a local park for a service project.

Session: 1 Dates: July 17-21

Times: 9:00am - 4:00pm Completed Grades: 2, 3, 4 Instructor: GGMG Volunteers Location: Shelter 3 & Gardens

Cost: \$180

Session: 2 Dates: July 24-28 Times: 9:00am - 4:00pm Completed Grades: 2, 3, 4 Instructor: GGMG Volunteers Location: Shelter 3 & Gardens



Completed Grades 3-4

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: June 19-23
Times: 9:00am - 4:00pm
Completed Grades: 3 and 4
Instructor: Todd Childers
Location: Symmes Hall Lab 7

Cost: \$265

Marine Explorers

Explore the Marine Lab and its residents, dissect a squid, learn to identify seashells, and discover plankton. Learn about the deep ocean, coral reef, and coastal habitats, including the vast estuaries and salt marshes of South Carolina. Learn how humans affect the oceans and what you can do to preserve our ocean environment. Study the loggerhead sea turtle and other endangered marine creatures. Learn about the horseshoe crab's great contribution to medical science as you handle it and other creatures from the Marine Lab's Touch Tank.

Session: 1
Dates: July 17-21
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Lorie Thibodeaux
Location: Marine Lab

Cost: \$115

Session: 2 Dates: July 17-21

Times: 1:00pm - 4:00pm Completed Grades: 3 and 4 Instructor: Lorie Thibodeaux

Location: Marine Lab

Cost: \$115

Young Scientist FULL DAY

Discover the fast-paced world of motion using marble rollercoasters, balloon rockets, 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 their adventures with friends and family.

Dates: July 10-14

Times: 9:00am - 4:00pm Completed Grades: 3 and 4 Instructor: Angela Henderson Location: Symmes Hall Lab 9

Cost: \$265



SciGirls

Calling all SciGirls! As part of our SciGirls Connect partnership campers will have access to explore and create with technology, engineering and nature! We'll explore squishy circuits and high tech fashion, take design challenges, play games, be citizen scientists and journey to the stars in a special visit to our new Planetarium.

Session: 1 Dates: July 10-14 Times: 9:00am - 12noon Completed Grades: 3 and 4 Instructor: Coby Dixon Location: Symmes Hall Lab 4

Cost: \$115



Sweet Science: Candy Making

Explore physical science concepts as you follow simple recipes to make candy. We will see how combinations of particular ingredients and changes in temperatures, create mixtures and solutions that make for a sweet treat to eat.

This camp is not recommended for students with food allergies.

Session: 1

Dates: June 19-23 Times: 9:00am - 12noon Completed Grades: 3 and 4 Instructor: Jennifer Brown Location: Symmes Hall Lab 9

Cost: \$115

Session: 2
Dates: June 26-30
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Jennifer Brown
Location: Symmes Hall Lab 9

Cost: \$115



Heroes in a Half Shell

Calling all turtles who are ready to learn the art of being a ninja...a ninja turtle, that is! Diving deep into the sewers, this action packed camp will teach your turtles to work as team, and grow to become leaders and heroes. Each day we will walk in the footsteps of Leo, Donny, Mikey, and Ralph, and learn the origins and history behind their names and existence. From learning Master Splinter's karate techniques to making secret ooze, get ready for an awesome party dude!

Session: 1
Dates: July 10-14
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Anna Parsons
Location: Design Lab





Completed Grades 3-4

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, make collections, study live animals and help feed our animals.. Camp includes two field trips to Paris Mountain State Park including swimming in the park lake on Thursday!

Session: 1
Dates: July 17-21
Times: 9:00am - 4:00pm
Completed Grades: 3 and 4
Instructor: Tim Taylor
Location: Ecology Lab

Cost: \$285



Design it, build it, knock it down and start over! Stretch your design imagination and test your engineering skills, but don't get too attached! Students will work in collaborative teams to make cool creations and then watch them crumble.

Session: 1
Dates: June 5-9
Times: 9:00am - 12noon
Completed Grades: 3 and 4
Instructor: Tommy Wilkinson
Location: Symmes Hall Lab 4

Cost: \$115

Olympian Adventures

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 enjoy awesome demonstrations 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: July 17-21 Times: 9:00am -

Times: 9:00am - 12noon Completed Grades: 3 and 4 Instructor: Anna Parsons Location: Design Lab

Cost: \$115



Fort Building

Build an awesome fort that you design! We'll provide the materials and instruction needed to construct the fort of your dreams. Besides building with hand tools (like hammers, saws, and wrenches), we'll have fun playing games, especially when you defend your fort on WATER day! A campfire on Thursday night will be a great ending to a super fun week! Individual supervision will be given to every group to ensure the safety of each structure.

Session: 1 Dates: July 17-20

Times: 9:00am -12noon M-Th, and 5:30pm -

8:00pm Thursday

Completed Grades: 3 and 4 Instructor: Dana Darling Location: Living History Farm

Cost: \$160

Session: 2

Dates: July 31-August 3

Times: 9:00am -12:00noon M-Th, and

5:30pm - 8:00pm Thursday Completed Grades: 3 and 4 Instructor: Dana Darling Location: Living History Farm

Cost: \$160

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 12-16 Times: 9:00am - 12noon Completed Grades: 3 and 4 Instructor: Latongia Pepper Location: Symmes Hall Lab 10

Cost: \$115

Session: 2
Dates: June 12-16
Times: 1:00pm - 4:00pm
Completed Grades: 3 and 4
Instructor: Latongia Pepper
Location: Symmes Hall Lab 10

Cost: \$115

Camp FULL DAY Shakespeare



Journey through time to the Globe Theater as we explore some of Shakespeare's greatest works during this day-long camp. Each day, we'll focus on a different play while also working on performing scenes from The Bard's legendary story, A Midsummer Night's Dream. Along the way we'll examine what it takes to put on a play from prop production to staging techniques.

Session: 1 Dates: June 5-9

Times: 9:00am - 4:00pm Completed Grades: 3 and 4 Instructor: Jessica Kelowitz Location: Conference Center

Cost: \$265



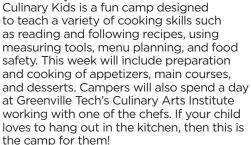
Looking for LEGO® Robotics?
See Pages 15-17



Members Receive a 10% Discount!

Completed Grades 3–5

Culinary Kids



This camp is not recommended for students with

food allergies. Session: 1

Dates: July 17-21

Times: 9:00am - 12noon Completed Grades: 3, 4, 5 Instructor: Anne Howell Location: Symmes Hall Lab 9

Cost: \$140

Session: 2 Dates: July 24-28 Times: 9:00am - 12noon Completed Grades: 3, 4, 5 Instructor: Anne Howell Location: Symmes Hall Lab 9

Cost: \$140



Killer Plants and 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 of different killer plants and animals to take home. Each participant will also get to plant their own carnivorous plant. We'll explore carnivores in a week of killer fun!

Session: 1

Dates: July 24-28 Times: 9:00am - 12noon Completed Grades: 3, 4, 5 Instructor: Kyle Rollins

Location: Rainforest Classroom

Cost: \$115

Potions and Lotions

The Art of Cosmetic Chemistry
Nail polish, lip gloss, and your own
personal scent... what could be
more fun than making your own!?
Campers will explore the art of beauty,
interesting ingredients, and the
cosmetic chemistry that makes it all
possible!

Session: 1

Dates: July 17-21

Times: 9:00am - 12noon Completed Grades: 3, 4, 5 Instructor: Gena Greer Location: Symmes Hall Lab 2

Cost: \$115



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 \$40 per week, no member discount.
- No refunds for cancellations received later than 7 days before camp start.

Lunch Bunch

- Supervised lunch stay between your morning and afternoon camps.
- Campers must bring their own lunch no food is provided!
- No structured activities will be provided.
- · Participants in full day camps should not sign up for Lunch Bunch as supervised lunch is part of their full day program.
- 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 \$25 per week, no member discount.
- No refunds for cancellations received later than 7 days before camp start.

Completed Grades 3-6

Harry Potter Science FULL DAY

Inspired by J.K. Rowling's Harry Potter book series. Muggles are welcome to participate in this enchanting camp. After being sorted into Gryffindor, Slytherin, Ravenclaw, or Hufflepuff, you'll enter the magical world of real science. Brew amazing concoctions in Potions class. Make your own broom and compete in a Quidditch Tournament. Uncover the mysteries of amazing plants in Herbology. Explore the stars in Astronomy. Discover Fantastic Beasts. Choose a wand to suit your botanical style. At the end of the week you will earn your O.W.L. certificate by competing in a quiz contest. The winning team will be awarded the House Cup! Join us for a magical week.

Session: 1

Dates: July 31-August 4 Times: 9:00am - 4:00pm Completed Grades: 3, 4, 5, 6

Instructor: Various

Location: Various; Drop off and Pick Up at

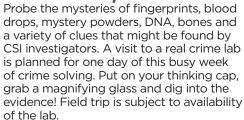
Symmes Hall **Cost:** \$265



Looking for LEGO® Robotics?
See Pages 15-17

Completed Grades 4-5

How and Why of CSI



Session: 1

Dates: June 26-30 Times: 9:00am - 12noon Completed Grades: 4 and 5 Instructor: Melanie Helling Location: Conference Center

Cost: \$125

Castles & Catapults

Calling all Lords and Ladies to the round table! Discover the fascinating world of knights and the Middle Ages as you create your own castle and learn how to defend it. Design your own coat of arms and shield suitable for a knight in shining armor. We'll end our quest with a fun Medieval Faire.

Session: 1
Dates: July 24-28
Times: 9:00am - 12noon
Completed Grades: 4 and 5
Instructor: Jenn Romatelli
Location: Design Lab

Cost: \$115

Disaster FULL DAY Engineering

Push your skills and designs to the limits! Test how much weight your bridge can hold, how well you can control water in a flood, how to control an oil spill, build a hurricane resistant structure and see if your engineering abilities can withstand a simulated earthquake. We'll design, build, destroy and build! Come use your creative skills to save the day!

Session: 1
Dates: July 17-21

Times: 9:00am - 4:00pm Completed Grades: 4 and 5 Instructor: Susan Shaw Location: Paleo Lab

Cost: \$265



SuperHero Academy FULL DAY

We have detected that you may have a superhuman ability. It could be that you are able to climb walls, leap tall buildings, fly through the sky and maybe even ... SMASH things! Join our team to see exactly what superpowers you have. Through our immersive role-playing program you will develop your origin story, find out exactly what powers you have, craft your SUPERSUIT, and figure out how to use your abilities for the protection of RoperCity. You will keep a record of your time in the academy by making a short comic book. Do you have what it takes to be a hero?

Session: 1 Dates: July 10-14 Times: 9:00am - 4:00pm Completed Grades: 4 and 5

Instructor: Loyd Henderson **Location:** Paleo Lab

Cost: \$265

Completed Grades 4-6

Delicious Desserts



Do you have a sweet tooth? During this week, confectioners will make sweet treats that will please the palate as well as the eye. Visit a real chocolate-kitchen one day on a field trip to Kilwins Chocolates, Fudge & Ice Cream. At the end of the week, guests will be invited for a sampling of everything the students have made.

Session: 1

Dates: July 31-August 4
Times: 9:00am - 12noon
Completed Grades: 4, 5, 6
Instructor: Landon Clark
Location: Symmes Hall Lab 9

Completed Grades 5–7

Rocketry I

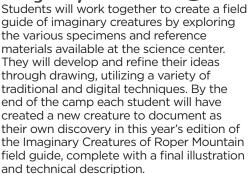
This action packed week begins with an exploration of the physics of rockets, then leads into basic concepts of rocketry. The program includes everything needed to construct and launch the three model rockets built during class. Students will receive the three rocket kits, a launch pad, launch control system, and engines and igniters for one launch. Families are welcome to join us for our launch window on Friday (launch location and pickup will be off-site).

Session: 1

Dates: June 19-23 Times: 9:00am - 12noon Completed Grades: 5, 6, 7 Instructor: Jenn Romatelli Location: Shelter 7/8

Cost: \$160





Session: 1

Dates: July 31-August 4
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Chris Steenerson
Location: Symmes Hall Lab 7

Cost: \$115

Survivor Training Grounds

FULL DAY

Do you have what it takes to survive? Come and learn about what humans need to survive and how to use what you might find to meet those needs. Campers will work as groups to play the ultimate game of survival and stand up to what nature throws at them!

Session: 1 Dates: June 5-9

Times: 9:00am - 4:00pm Completed Grades: 5, 6, 7 Instructor: Joe Blizzard Location: Shelter 7/8

Cost: \$265



Upstate Ecology FULL DAY Field Studies



Students will use plankton nets, soil funnels. tracking stations, mist nets and other collecting techniques to survey, capture and examine wildlife in various Upstate habitats. An all-day field trip will take us to the Southeast's most active bird banding station in Rock Hill, SC, where we will experience the thrill of capturing ruby-throated hummingbirds and other bird species and releasing them back into the wild. Our halfday field trip will take us to a swift mountain stream and waterfall in Pickens County to collect and analyze invertebrates living in the stream's riffle zone. Campers will spend plenty of time at Roper Mountain, using special equipment to examine our pond habitat. In the Ecology Lab, students will conduct animal behavior studies, construct nature casts, and create a "Treasures from Nature" display to take home and showcase the week's activities. Session: 1

Dates: July 24-28

Times: 9:00am - 4:00pm Completed Grades: 5, 6, 7 Instructor: Lorie Thibodeaux Location: Ecology Lab

Cost: \$300



Digital Storytelling

Make your stories come to life! In this camp, students will take the ancient art of storytelling and use modern technologies to weave images, music, narrative and voice together to bring their characters, situations, and experiences to life. We'll explore different types of digital stories and explore story genres, then create a storyboard to guide and create a multimedia story using digital tools.

Session: 1

Dates: July 24-28 Times: 9:00am - 12noon Completed Grades: 5, 6, 7 Instructor: Lori Larsen Location: Symmes Hall Lab 8

Cost: \$115

Digital Movie Making FULL DAY

Campers will learn how to be a movie director and technician as they create a live action film in this fun-filled movie production camp. In this camp, you will learn how to use computer movie-editing software along with video still images to create professional-looking movies that you can share with family or friends, post to your website or Ipod and even create eyepopping documentaries for your projects next school year! Each day will be packed with film-making activities. Present your movie to parents on Friday.

Session: 1

Dates: June 19-23 Times: 9:00am - 4:00pm Completed Grades: 5, 6, 7 Instructor: Loyd Henderson Location: Universe Classroom

Cost: \$265

Ordinary to Extraordinary: Art of Recycling

Students will turn trash and other everyday objects into treasure, transforming bottle caps, duct tape, discarded records and books into beautiful works of art! Using a variety of art and craft techniques including painting, sculpture, origami and collage, the ordinary will become extraordinary. Family and friends are invited to an exhibit at the end of the session to see the finished creations.

Session: 1 Dates: July 17-21

Times: 9:00am - 12noon Completed Grades: 5, 6, 7 Instructor: Bronwyn White Location: Astronomy Classroom

Completed Grades 5-7

Digital Photography

Can you picture yourself discovering the world around you through the lens of a camera? Campers will explore artistic concepts, the science behind the invention of the camera, and the evolution of digital photography. We will learn about career opportunities, basic editing techniques, and create our own digital portfolio.

Students must bring their own digital camera for this camp.

Session: 1 Dates: July 10-14 Times: 9:00am - 12noon Completed Grades: 5, 6, 7 Instructor: Tara Fennell Location: Shelter 2

Cost: \$115

Session: 2 Dates: July 10-14

Times: 1:00pm - 4:00pm Completed Grades: 5, 6, 7 Instructor: Tara Fennell Location: Shelter 2

Cost: \$115

SteamPunk

Explore the connections between inventors, history, science fiction, archetypes and truly fantastic fashion. In this camp, students will create an alternate identity, craft cool accessories, invent innovative gadgets, learn how to create mechanical poetry and more. Each day of camp will be devoted to exploring a different facet of the Steampunk genre – culminating with a Mad Hatter's Tea party complete with tea-biscuit dueling!

Dates: June 19-23 Times: 9:00am - 12noon Completed Grades: 5, 6, 7

Instructor: Linda Reynolds/Sara Newell

Location: Symmes Hall Lab 8

Cost: \$115

Session: 1

Looking for LEGO® Robotics? See Pages 15-17

In a Galaxy full day Far, Far Away

Journey to a galaxy far, far away as we explore the science, mythology, and historical influences of Star Wars. Discover the elements of the Hero's Journey by examining the films of the original trilogy to reveal connections between the characters and events of these beloved stories to those from cultures around the world, then create your own adventures using a variety of media. We'll also look at the science fact vs. science fiction related to technology, creatures, and locations as seen throughout the films. From lightsaber training to solving Star Warsinspired design challenges, the Force will be with you as you progress from Padawan to Jedi in this exciting, hands-on camp.

Session: 1 Dates: July 24-28 Times: 9:00am - 4:00pm Completed Grades: 5, 6, 7

Instructor: Thomas Riddle
Location: Astronomy Classroom

Cost: \$265



SpaceX: FULL DAY Fact and Fiction



Through a variety of media, campers will explore the history and future of human spaceflight in science fact and as portrayed in science fiction. Working in teams, they will build and "operate" a large tabletop model of the International Space Station. Campers will also design and build remotely controlled robots to accomplish missions on a distant asteroid and the nearby moon. Exploration of space tourism and orbiting hotels will also be explored.

Session: 1 Dates: June 12-16 Times: 9:00am - 4:00pm Completed Grades: 5, 6, 7 Instructor: Bill Bradshaw

Location: Universe Classroom & Workshop

Cost: \$265

Project Discovery – Materials Matter!

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 will use common materials to create a golden penny, concoct polymers, grow crystals, engineer a battery from fruit and metals, and have a contest to make the strongest cement! Come and join us for this amazing camp offered in partnership with the American Society of Materials! Don't miss this unique opportunity!

Session: 1
Dates: July 24-28
Times: 9:00am - 12noon
Completed Grades: 5, 6, 7
Instructor: Val Mosher
Location: Symmes Hall Lab 10

Cost: \$115



M.A.D. Lab

Make and Design lab is the place where design and technology meet! You will be challenged to create and design objects and then MAKE them using 3D printers. If you can design it, you can make it (think bracelets, cell phone attachments, musical instruments and more!). Campers will work as teams on real-world design challenges and will explore a makerspace (including cardboard and duct tape of course!).

Session: 1

Dates: June 12-16 Times: 9:00am - 12noon Completed Grades: 5, 6, 7

Instructor: Chris Beyerle/Val Mosher **Location:** Symmes Hall Lab 8



Completed Grades 5-8

Early American FULL DAY Farm Life

Are you a frequent visitor to the farm and wish you could taste the food cooking in the kitchen or work with the animals? Then this is the camp for you! You'll learn to cook in the hearth, explore the world of fibers such as weaving and dyeing, care for the animals and more as you learn what life was like on an early 1800's farm.

Session: 1 Dates: July 10-14

Times: 9:00am - 4:00pm Completed Grades: 5, 6, 7, 8

Instructor: Eve King

Location: Living History Farm

Cost: \$265



Ages 12+

Zombie FULL DAY **Mountain Escape**

Do you long for a chance to walk among the undead? This is your chance! Campers will explore the world of zombies and the science and myths behind them. They will practice zombie survival skills, create defense techniques, and have a chance to see if they have what it takes to escape from Zombie Mountain!

This camp is not recommended for students of a sensitive nature. No age exceptions will be allowed.

Session: 1

Dates: July 31-August 4 Times: 9:00am - 4:00pm

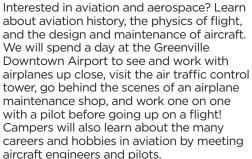
Completed Grades: Ages 12 and up

Instructor: Joe Blizzard Location: Shelter 7/8

Cost: \$265

Completed Grades 6-8

Just Plane Fun



Session: 1

Dates: July 10-14

Times: 12:30pm - 4:00pm Completed Grades: 6, 7, 8 Instructor: Glenn Sparkman Location: Symmes Hall Lab 10

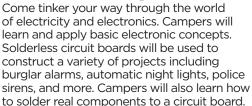
Cost: \$210

Session: 2 Dates: July 17-21

Times: 12:30pm - 4:00pm Completed Grades: 6, 7, 8 **Instructor:** Glenn Sparkman Location: Symmes Hall Lab 10

Cost: \$210

Tinker & Tech



New!

Session: 1

Dates: June 26-30 Times: 9:00am - 12noon Completed Grades: 6, 7, 8 **Instructor:** Rick Schwartz Location: Symmes Hall Lab 7

Cost: \$115

Session: 2

Dates: June 26-30 Times: 1:00pm - 4:00pm Completed Grades: 6, 7, 8 **Instructor:** Rick Schwartz Location: Symmes Hall Lab 7

Cost: \$115

Completed Grades 6-9

Advanced Digital FULL DAY Movie Making

Campers will continue working with video editing software to create special effects. Emphasis will be on story-telling using quality editing techniques. Explore greenscreening, 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. Present your movie to parents on Friday.

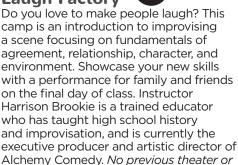
Digital Movie Making recommended but

not required! Session: 1

Dates: June 26-30 Times: 9:00am - 4:00pm Completed Grades: 6, 7, 8, 9 **Instructor:** Loyd Henderson Location: Universe Classroom

Cost: \$265

Laugh Factory



improv experience required. Session: 1

Dates: July 10-14 Times: 9:00am - 12noon Completed Grades: 6, 7, 8, 9 Instructor: Harrison Brookie Location: Astronomy Classroom

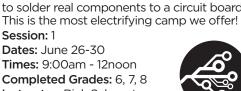
Cost: \$115

VEX Robotics

In this advanced robotic design course, you will build a VEX robot and learn the basic fundamentals of how to operate, program and control it. Then learn what it takes to make your robot successful in various challenges.

Session: 1

Dates: June 12-16 Times: 1:00pm - 4:00pm Completed Grades: 6, 7, 8, 9 Instructor: Chris Beyerle **Location:** Conference Center



MakerSpace Workshops For Ages 12+



Be a MAKER! Join us in the MakerZone where campers will use upcycled and new materials to complete innovative, creative, student-led, DIY electronics and/or 3D printed projects. Workshops will include use of tools (power and/or hand), special equipment and engineering and design principles. 3D printing workshops will also incorporate use of 3D design computer software. Each workshop will have a different completed project for campers to take home. Students will design and build individual session will include safety and group technical instruction time, however, projects are independently completed. Staff members will facilitate and help troubleshoot problems, but students must be able to be self-directed and work independently. There will be no age exceptions due to the safety factor involved with use of tools and special equipment.

3D Printing & Materials Making

Session: 1 **Dates:** June 19

Times: 9:00am - 12noon
Completed Grades: Ages 12 and up
Instructor: Val Mosher
Location: Universe Workshop

Cost: \$30

Session: 2 Dates: June 21

Times: 9:00am - 12noon

Completed Grades: Ages 12 and up

Instructor: Val Mosher
Location: Universe Workshop

Cost: \$30

Session: 3 Dates: June 22

Times: 9:00am - 12noon

Completed Grades: Ages 12 and up

Instructor: Val Mosher Location: Universe Workshop

Toy Maker

Session: 1 Dates: June 29

Times: 9:00am - 12noon

Completed Grades: Ages 12 and up

Instructor: Joe Blizzard Location: Universe Workshop

Cost: \$30

Session: 2 Dates: June 30

Times: 9:00am - 12noon

Completed Grades: Ages 12 and up

Instructor: Joe Blizzard **Location:** Universe Workshop

Cost: \$30

Electronics Tinkering

Session: 1 Dates: June 26 Times: 9:00am - 12noon

Completed Grades: Ages 12 and up

Instructor: Joe Blizzard **Location:** Universe Workshop

Cost: \$30

Session: 2 Dates: June 27

Times: 9:00am - 12noon
Completed Grades: Ages 12 and up

Instructor: Joe Blizzard Location: Universe Workshop

Cost: \$30

Session: 3 Dates: June 28

Times: 9:00am - 12noon

Completed Grades: Ages 12 and up Instructor: Joe Blizzard Location: Universe Workshop

Cost: \$30

Game Making

Session: 1

Dates: June 20

Times: 9:00am - 12noon

Completed Grades: Ages 12 and up Instructor: Val Mosher Location: Universe Workshop

Cost: \$30

Session: 2 Dates: June 23

Times: 9:00am - 12noon

Completed Grades: Ages 12 and up

Instructor: Val Mosher Location: Universe Workshop

Cost: \$30



Summer Volunteer **Opportunities**

Roper Mountain is seeking enthusiastic, committed student volunteers to help with camps this summer! Volunteers may be assigned to specific camps, early drop off, lunch bunch and/or general camp assistance as needed.

Volunteers must:

- Be at least 14 years old as of June 1, 2017
- 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)

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. Volunteer forms received prior to May 1, 2017 will receive priority consideration.

Find the volunteer application on our website at www.ropermountain.org



Looking for **LEGO®** Robotics? See Pages 15-17



Boy Scouts

The NOVA Award program consists of individual activity elements in various STEM (Science, Technology, Engineering, Math) topics that are designed to encourage interest and to increase participation in STEM by making it relevant and fun! Register for as many Merit Badge Camp classes as you wish. Classes are taught by professional staff instructors in exciting science labs. Most badge requirements should be met. Scouts should read the merit badge pamphlet prior to the class and bring the pamphlet to the class. Wear your Class B uniform, if possible.

Environmental FULL DAY Merit Badge

This full day class will include a field study trip to Lake Conestee Nature Park and studies at Roper Mountain. Some followup work will be due back after this class.

Session: 1 Dates: Mon. June 5 Times: 8:30am - 4:00pm

Completed Grades: 6, 7, 8, 9, 10, 11

Instructor: Tim Taylor

Location: Ecology Lab/Offsite

Cost: \$65

Bird Study Merit Badge

Go birding in the field to identify birds for a field notebook. Study birds in our labs with real specimens..

Session: 1

Dates: Mon. June 19 Times: 8:00am - 12:30pm

Completed Grades: 6, 7, 8, 9, 10, 11

Instructor: Tim Taylor Location: Ecology Lab

Cost: \$35

Reptiles/Amphibians Merit Badge

This study will use live reptiles and amphibians from our displays. We will also go to our ponds and woods to see live "herps."

Session: 1

Dates: Mon. July 24 Times: 8:30am - 12:30pm

Completed Grades: 6, 7, 8, 9, 10, 11

Instructor: Tim Taylor

Location: Discovery Room A/B

Cost: \$35

Forestry Merit Badge

Collect and identify common tree leaves for your field notebook. Study tree cross-sections and learn about forest management with the aid of a forester.

Session: 1

Dates: Tues. July 25 Times: 8:30am - 12:30pm

Completed Grades: 6, 7, 8, 9, 10, 11

Instructor: Tim Taylor

Location: Discovery Room A/B

Cost: \$35

Insect Study Merit Badge

Catch and/observe insects in our gardens for a scrapbook. Learn about the life cycles of butterflies and bees through our displays. Classify and identify insects with real specimens.

Session: 1

Dates: Wed. July 26 Times: 8:30am - 12:30pm

Completed Grades: 6, 7, 8, 9, 10, 11

Instructor: Tim Taylor

Location: Discovery Room A/B

Cost: \$35



Girl Scouts



The Girl Scout Badge Program is a great way for a girl to explore her interests and learn new skills—and to remember every adventure and show the world what she's accomplished. Instructors will offer a variety of activities that meet the requirements for the badge, allow opportunities for connections to STEM (Science, Technology, Engineering, Math) topics and spark creativity! At the end of the camp, badges will be presented to each Girl Scout participant. Uniforms are welcome but not required.

Brownies -**Home Scientist**

You're the Scientist! In this badge, find out

Session: 1

Dates: Tues. June 20 Times: 9:00am - 12noon Completed Grades: 2 and 3 Instructor: Latongia Pepper **Location:** Conference Center

Cost: \$35

Juniors -**Detective**

Stories, movies, and television are full of where science has been hiding in your home! amazing detectives solving mysteries! Grab your magnifying glass and dive into the science of detecting!

Session: 1

Dates: Wed. June 21 **Times:** 9:00am - 12noon Completed Grades: 4 and 5 **Instructor:** Latongia Pepper **Location:** Conference Center

Cost: \$35

Cadettes -Special Agent

A Special Agent wears many hats: detective, scientist, psychologist, enforcer of the law. In this badge use your observation skills to uncover one of the most exciting and demanding jobs for investigative minds!

Session: 1

Dates: Thurs. June 22 Times: 9:00am - 12noon Completed Grades: 6, 7, 8 **Instructor:** Latongia Pepper Location: Conference Center



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 5-9

Times: 9:00am - 12noon Completed Grades: 1 and 2 Instructor: Kim Roberts Location: Symmes Hall Lab 1

Cost: \$115

Session: 2 Dates: June 12-16 Times: 9:00am - 12noon Completed Grades: 1 and 2 Instructor: Coby Dixon Location: Symmes Hall Lab 1

Cost: \$115

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

Cost: \$115



Session: 4

Dates: July 10-14

Times: 1:00pm - 4:00pm Completed Grades: 1 and 2 Instructor: Anna Parsons Location: Symmes Hall Lab 1

Cost: \$115

Session: 5 Dates: July 17-21

Times: 1:00pm - 4:00pm Completed Grades: 1 and 2 Instructor: Coby Dixon Location: Symmes Hall Lab 1

Cost: \$115

Session: 6
Dates: July 24-28
Times: 9:00am - 12noon
Completed Grades: 1 and 2
Instructor: Anna Parsons
Location: Symmes Hall Lab 1

Cost: \$115

Session: 7

Dates: July 31-August 4 Times: 1:00pm - 4:00pm Completed Grades: 1 and 2 Instructor: Anna Parsons Location: Symmes Hall Lab 1

Cost: \$115



WeDo Advanced

Ready for the next level of robotics? Using the LEGO® WeDo robotics kits, campers will build larger and more complex robots including a tower crane, a Ferris wheel and a remote control car! A day will also be set aside for students to 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 with LEGOs® and are interested in learning programming.

Session: 1 Dates: June 5-9

Times: 1:00pm - 4:00pm Completed Grades: 2 and 3 Instructor: Coby Dixon Location: Symmes Hall Lab 1

Cost: \$115

Session: 2
Dates: June 12-16
Times: 1:00pm - 4:00pm
Completed Grades: 2 and 3
Instructor: Kathie Fox
Location: Symmes Hall Lab 1

Cost: \$115

Session: 3

Dates: June 19-23
Times: 1:00pm - 4:00pm
Completed Grades: 2 and 3
Instructor: Coby Dixon
Location: Symmes Hall Lab 1

Cost: \$115

Session: 4
Dates: July 10-14
Times: 9:00am - 12noon
Completed Grades: 2 and 3
Instructor: Kathie Fox
Location: Symmes Hall Lab 1



LEGO® Robotics

Lego Design Engineer

Lego Design Engineers will extend their skills in programming and building in the exciting world of robotics. Using the NEW Lego Wedo 2.0 kits and software, campers will build complex robots with the opportunity to design their own modifications to the robot and develop their own programing. Lego Design Engineers will use their robots to enter real world scenarios including a rescue helicopter, plants and pollinators, and prevent a flood with a robot controlled flood gate. Explore, build, design and program!

Session: 1

Dates: June 26-30 **Times:** 9:00am - 12noon Completed Grades: 3 and 4 Instructor: Coby Dixon Location: Symmes Hall Lab 1

Cost: \$115

Session: 2

Dates: June 26-30 Times: 1:00pm - 4:00pm Completed Grades: 3 and 4 Instructor: Coby Dixon Location: Symmes Hall Lab 1

Cost: \$115

Session: 3 Dates: July 17-21 **Times:** 9:00am - 12noon Completed Grades: 3 and 4 Instructor: Coby Dixon Location: Symmes Hall Lab 1

Cost: \$115

Session: 4 Dates: July 24-28 Times: 1:00pm - 4:00pm Completed Grades: 3 and 4 **Instructor:** Anna Parsons Location: Symmes Hall Lab 1

Cost: \$115

Session: 5

Dates: July 31-August 4 **Times:** 9:00am - 12noon Completed Grades: 3 and 4 **Instructor:** Kathie Fox Location: Symmes Hall Lab 1

Cost: \$115

Machine Mania

LEGOs®, Contraptions, Action! Ideal for the student that loves to build but is ready to start some simple programming. We will explore machines and the roles of pulleys, levers and gears. Then it's on to building contraptions using NXT Mindstorm robotics devices (think mousetraps and dragsters!). Our final build will be a custom robot that will navigate through an obstacle course!

Session: 1

Dates: June 26-30 Times: 9:00am - 12noon Completed Grades: 3 and 4 **Instructor:** Kathie Fox

Location: Symmes Hall Lab 8

Cost: \$115

Session: 2

Dates: June 26-30 Times: 1:00pm - 4:00pm Completed Grades: 3 and 4 **Instructor:** Kathie Fox

Location: Symmes Hall Lab 8

Cost: \$115

Session: 3 Dates: July 17-21

Times: 9:00am - 12noon Completed Grades: 3 and 4 **Instructor:** Kathie Fox

Location: Symmes Hall Lab 8

Cost: \$115

Session: 4 Dates: July 17-21

Times: 1:00pm - 4:00pm Completed Grades: 3 and 4 **Instructor:** Kathie Fox Location: Symmes Hall Lab 8

Cost: \$115



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 quitar! Do vou doodle? Build a bot to do your doodling. 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: June 5-9

Times: 9:00am - 12noon Completed Grades: 4 and 5 Instructor: Coby Dixon Location: Symmes Hall Lab 8

Cost: \$115



Campers will be introduced to the latest LEGO® robotics technology, the EV3. They will work in teams to 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.

Session: 1

Dates: July 31-August 4 Times: 9:00am - 12noon Completed Grades: 4, 5, 6 Instructor: Coby Dixon Location: Symmes Hall Lab 8

Cost: \$115

Session: 2

Dates: July 31-August 4 **Times:** 1:00pm - 4:00pm Completed Grades: 4, 5, 6 Instructor: Coby Dixon Location: Symmes Hall Lab 8





LEGO® Robotics

ChallengeBots

Build a LEGO® Robot and compete in "Hunger Games" style challenges (non-lethal version)! You will start in the training arena to learn EV3 programming, and then build a chariot to represent your district and show your creatvity. Then the games will begin! May the bricks be ever in your favor!

Session: 1 Dates: June 5-9 Times: 9:00am - 12noon Completed Grades: 4, 5, 6 Instructor: Val Mosher Location: Symmes Hall Lab 8

Cost: \$115

Session: 2 Dates: June 5-9

Times: 1:00pm - 4:00pm Completed Grades: 4, 5, 6 Instructor: Val Mosher Location: Symmes Hall Lab 8

Cost: \$115

Sumo Bot

Robots Sumo Style! Campers will work in teams to design, build, and program their "bot" using the touch, light and/or ultrasonic sensors. Teams will challenge another robot in a "Sumo Style" wrestling match (no destruction please!). Teams will work throughout the week to re-design their Sumo 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, 7
Instructor: Mike Mulea
Location: Symmes Hall Lab 7
Cost: \$115

Cost. \$115

Session: 2 Dates: June 12 - 16 Times: 1:00pm - 4:00pm For Completed Grades: 5, 6, 7 Instructor: Mike Mulea Location: Symmes Hall Lab 7

Cost: \$115

BattleBots

Do you have what it takes to work as a team to build the ultimate robot? Can you create a strategy to outwit your opponent to exploit their weaknesses? If your answer is yes, then you're ready for BattleBots! Battle bots will use EV3 LEGO® robotics to play on an ever changing field with dangerous obstacles and traps. Do you build a robot for offense or defense? Will you topple or flip your opponent? How do you immobilize your opponent? You decide! You compete! Challenges will be presented daily with a final competition on Friday.

Session: 1

Dates: July 10-14 Times: 9:00am - 12noon Completed Grades: 5, 6, 7 Instructor: Mike Mulea Location: Symmes Hall Lab 7

Cost: \$115

Session: 2 Dates: July 10-14 Times: 1:00pm - 4:00pm Completed Grades: 5, 6, 7 Instructor: Mike Mulea Location: Symmes Hall Lab 7

Cost: \$115

Advanced Programming & Design for FLL

Campers will use the latest EV3 Lego robotics technology to explore advanced programming techniques using EV3 sensors and making custom My Blocks. Working in teams, they will apply their skills to build and program a robot to solve missions on an FLL competition field. Come and hone your abilities so you can take your FLL Team or Club to the next level! *Prerequisite: Previous FLL programming*

experience required.

Session: 1 Dates: July 17-21

Times: 9:00am - 12noon Completed Grades: 5, 6, 7 Instructor: Mike Mulea Location: Symmes Hall Lab 7

Cost: \$115

Support Roper Mountain and enjoy benefits by becoming a member!

Benefits Include:

- Admission to Second Saturdays, Starry Nights, and the new Butterfly Adventure (details on page 18)
- Summer Camp early notification, discounts and early registration
- Program and events discounts (NOT Holiday Lights) 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

Become a member by visiting RoperMountain.org.



Butterfly Adventure June 1-July 7

Tuesday through Saturday



- Surround yourself with hundreds of butterflies as you experience our Butterfly Adventure habitat
- ★ Explore our natural science habitats: Rainforest, Ecology Lab, Marine Lab, and Discovery Rooms
- ₩ Step back in time with a visit to the Living History Farm
- ₩ Have fun in WildWood, our new natural play area
- ₩ Visit our website for a schedule of activities and programming

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Eclipse Extravaganza! August 19 – 21

- 🌑 Special hours 10am-5pm Saturday, Sunday, Monday
- Fun hands-on activities for all ages, demonstrations and programs throughout the entire science center
- Full dome shows in the new T.C. Hooper Planetarium
- Programs on safe viewing of the eclipse
- Special observation sites with astronomers assisting visitors on Monday
- Tours of the Daniel Observatory and historic 23" Alvan Clark Refractor Telescope, the 8th largest refractor in the country

Summer Adventures Planetarium Shows



GIANT DOME THEATER AND HOOPER PLANETARIUM

Our 50-foot Dome Screen = Awe-inspiring Shows Every Tuesday, Wednesday, and Thursday! Featuring a Thrilling Full-immersion image with Surround Sound. Each show includes the popular "Europa Ice Slide."

		Tuesday		Wednesday		Thursday
July	25	10:15 - Little Star 11:30 - Habitat Earth 1:30 - Astronaut	26	10:15 - Little Star 11:30 - Habitat Earth 1:30 - Astronaut	27	10:15 - Little Star 11:30 - Habitat Earth 1:30 - Astronaut
August	1	10:15 - Magic Tree House 11:30 - Eclipse: Sun Revealed 1:30 - Force 5	2	10:15 - Magic Tree House 11:30 - Eclipse: Sun Revealed 1:30 - Force 5	3	10:15 - Magic Tree House 11:30 - Eclipse: Sun Revealed 1:30 - Force 5
	8	10:15 - Molecularium 11:30 - Eclipse: Sun Revealed 1:30 - Maya Skies	9	10:15 - Molecularium 11:30 - Eclipse: Sun Revealed 1:30 - Maya Skies	10	10:15 - Molecularium 11:30 - Eclipse: Sun Revealed 1:30 - Maya Skies
	15	10:15 - One World: One Sky 11:30 - Eclipse: Sun Revealed 1:30 - Eclipse: Sun Revealed	16	10:15 - One World: One Sky 11:30 - Eclipse: Sun Revealed 1:30 - Eclipse: Sun Revealed	17	10:15 - One World: One Sky 11:30 - Eclipse: Sun Revealed 1:30- Eclipse: Sun Revealed

Astronaut

What does it take to become an astronaut? The exploration of space is the greatest endeavor that humankind has ever undertaken. Take part in this incredible journey!

Eclipse: The Sun Revealed

Are you ready for the incredible Total Solar Eclipse happening in Greenville August 21st 2017? This brand new show will tell you everything you need to be prepared for this once-in-a-lifetime event.

Force 5

Extreme weather takes center stage as the audience experiences storms that would never be safe in the real world.

Habitat Earth

Enjoy stunning visualizations of both biological and humanbuilt networks (and of how they intersect), taking showgoers on an incredible, immersive journey through the interconnectedness of life on Earth.

Little Star

Follow Little Star in his search for planets of his own to protect and warm. Along the way, he meets other stars and learns what makes each star special.

Magic Tree House Space Mission

Peek into the treehouse and follow Jack and Annie on an exciting adventure as they meet a helpful astronomer and an astronaut.

Molecularium

Ride snowflakes as this digital experience takes young audiences into a magical, musical world of atoms and molecules.

One World One Sky

Join Big Bird and Elmo as they explore the night sky. Together they take an imaginary trip from Sesame Street to the moon.

Tales of the Maya Skies

Immerse yourself into the Maya astronomy, art and culture through a custom score and visuals which inspires and educates.

Buy tickets online at RoperMountain.org

Seating is limited. Pre-purchase is recommended!

\$5.00 per Adult or Child, per program **FREE** for RMSC Members

Tickets are non-refundable. Buy online at RoperMountain.org.





Roper Mountain Everyday science with extraordinary fun!

Roper Mountain exists because of a unique partnership of public ownership, corporate sponsorship, private support, and volunteers. During the school year, 400-600 students visit Roper Mountain every day for immersive "learning labs."

Public programs at the Center are Friday Starry Nights and the Second Saturday public day. In the summer, we also offer our Butterfly Adventure and Summer **Adventures** in the Planetarium. See pages 18 and 19 for show information. Visit RoperMountain.org for more program information and to buy tickets.

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.



Roper Mountain Science Center

- Butterfly Adventure June 1 July 7 Tuesday - Saturday, 9:00am - 3:00pm Paid Admission Required
- Summer Adventures in the Planetarium July 25, 26, 27 August 1, 2, 3, 8, 9, 10, 15, 16, 17
- Eclipse Extravaganza August 19-21 Paid Admission Required



Planetarium showtimes at 7:00pm and 8:30pm include:

- Feature Presentation
- Live Skv Talk
- Europa Ice Slide
- Observatory viewing available (weather permitting).



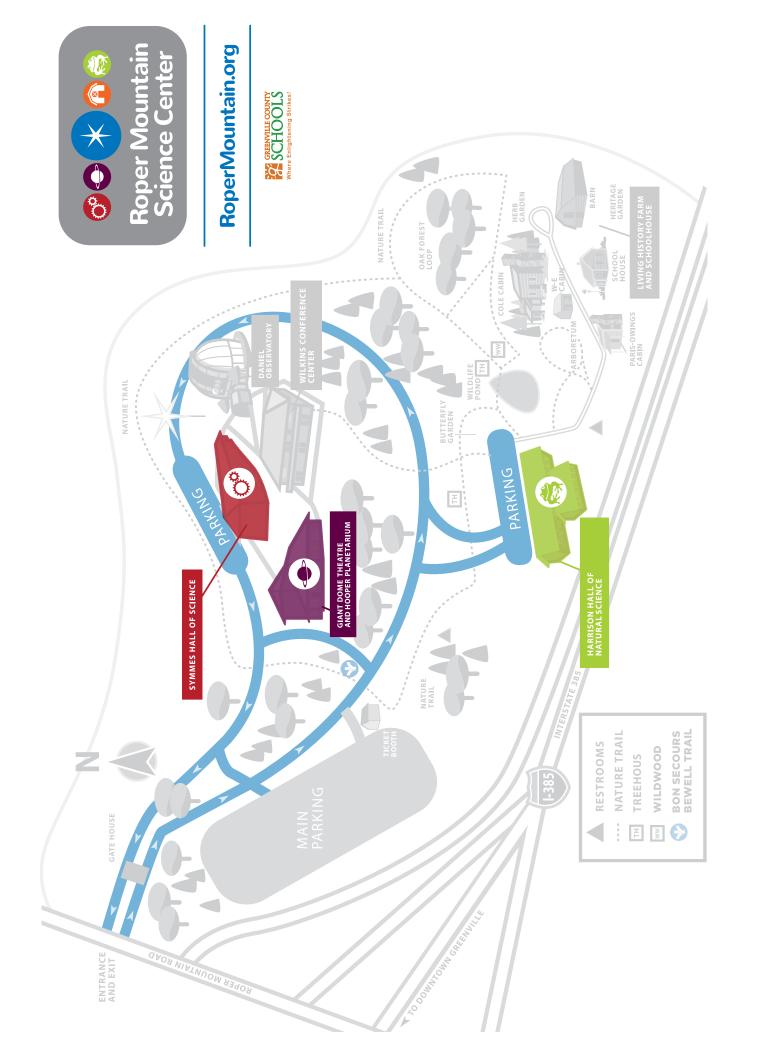
Second Saturday

Second Saturdays showcase different special events or themes select months.

This year's topics include:

- STEMFest February 11
- Space Day March 11
- Blueberry Festival July 8
- Maker Fair October 14
- Fall Harvest Festival November 12

Event hours: 9:00am - 3:00pm on the 2nd Saturday of select months.





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P 864.355.8900 F 864.355.8948

RoperMountain.org





Register Online at RoperMountain.org

Members only online registration

Monday, February 20 through Wednesday, February 22

Monday, February 20 is online registration only, beginning 7:00am No walk-in registration.

Public registration opens online

Thursday, February 23 at 8:00am

On-site (Walk-in) Registration

Online registration is preferred, but on-site (walk-in) registration is available starting February 21 and 22 for members, February 23 for non-members at Symmes Hall of Science from 10:00am – 2:15pm. If paying with cash, please bring exact amount; no change is available.

No on-site camp registrations will be processed after 2:30pm



Summer 2017

Activity-based camps that mix learning and fun!

RoperMountain.org

