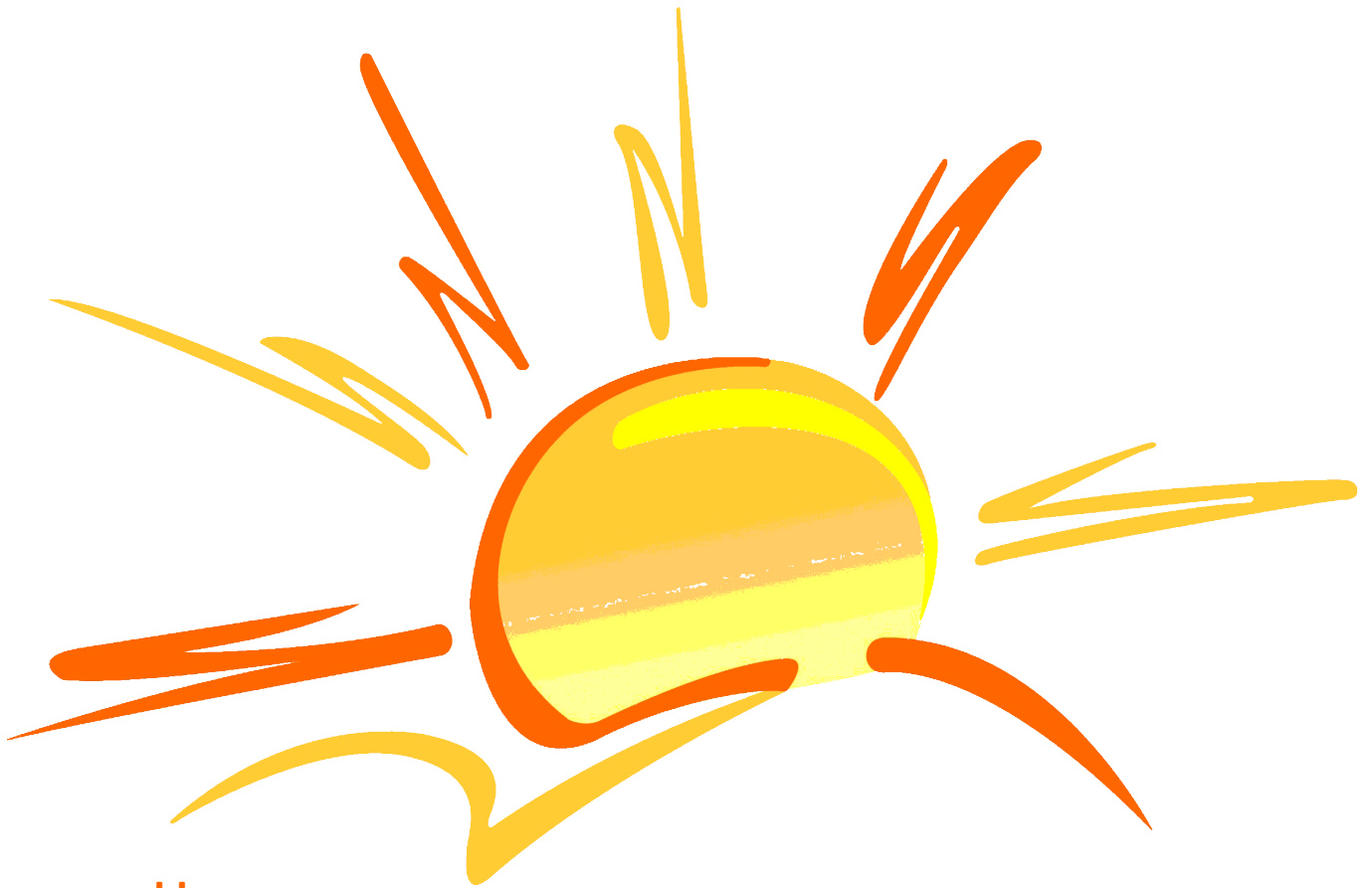


Summer of Innovation 2023

# Course Guide



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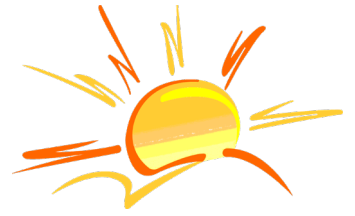


CORNING



Science & Discovery Center 





## What is the Summer of Innovation?

Several organizations from across the Southern Tier have united to offer unique learning opportunities for children and young adults during the summer months. These organizations have a common goal of extending the traditional school year into a third summer semester. Our offerings have another purpose as well – to provide students with STEM (Science, Technology, Engineering and Mathematics) skills that are essential to their success in the future.

## Partnering organizations include:

- Corning Community College – [www.corning-cc.edu/student-life/steahm.php](http://www.corning-cc.edu/student-life/steahm.php)
- GST BOCES – [www.gstboces.org](http://www.gstboces.org)
- Notre Dame High School – [www.notredamehighschool.com](http://www.notredamehighschool.com)
- Science & Discovery Center – [www.sciencediscoverycenter.org](http://www.sciencediscoverycenter.org)
- Tanglewood Nature Center and Museum – [www.tanglewoodnaturecenter.com](http://www.tanglewoodnaturecenter.com)
- Wings of Eagles Discovery Center – [www.wingsofeagles.com](http://www.wingsofeagles.com)

## How do I register my child for these courses?

To register your child for any of the courses listed in this brochure, please go to [www.gstboces.org](http://www.gstboces.org) and click on the link to the agency offering the course your child is interested in. From there, you will be able to access the registration information you need.

**Enrollment is limited; please register early!**

*When registering for courses, please use the grade your child will enter in the fall unless otherwise indicated.*

## What is the cost of these programs?

The cost of these academies varies. Please see the course description for information on price.

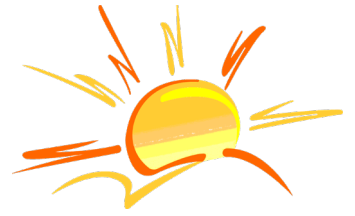
## Are scholarships available?

Scholarships are available from the following partners:

- Corning Community College
- Science & Discovery Center
- Tanglewood Nature Center and Museum
- Wings of Eagles Discovery Center
- Some scholarships are available to Elmira City School District students. Please contact Jennifer Biggs at (607) 735-3580.

## Is transportation available?

Transportation is available for Elmira City School District students. Please contact Jennifer Biggs at (607) 735-3580 for more information.



**Join us for summer fun and learning at a variety of sites including:**

## **@Corning Community College**

**1 Academic Drive, Corning**

### **Full STEAHM Ahead! (Girls, Grades 4-5)**

**July 17- 21 (Grades 4-5) and July 31-August 4 (Grades 4-5), 8:30 AM-4:00 PM,**

**Commons Building**

**Cost \$100, Scholarships available**

**Limited transportation available**

The Full STEAHM Ahead Summer Workshop is a week-long program for girls that focuses on Science, Technology, Engineering, Arts, Health and Math education. Approximately 40 middle school girls from Chemung, Schuyler and Steuben counties will be selected based on essay applications to participate in this low-cost workshop. Girls will: learn how to code with Ozobots, creative coding robots; explore the night sky at CCC's Digital Dome; write and perform a drama production; develop math theory using supplies like pine cones; paint rocks to learn math sequences; learn to meditate and practice yoga for stress release; develop an engineering project that they can wear home and lots more. Also hear from women working locally in STEM careers to design your own career. Past participants age 13 and up may apply for our junior chaperone program.

**For more information: [www.corning-cc.edu/student-life/steahm.php](http://www.corning-cc.edu/student-life/steahm.php)**

## **@GST BOCES Bush Education Center**

**459 Philo Road, Elmira**

***Please note: There is no charge for courses at the Bush Education Center.***

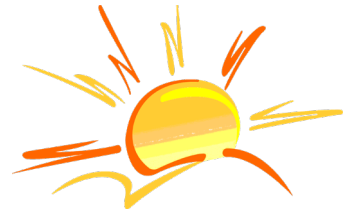
**Online registration information for classes at the Bush, Coopers and Wildwood Education Centers and the STEM Academy can be found at [www.gstboces.org](http://www.gstboces.org).**

**Please click on the Summer of Innovation banner at the top of the page. For more information, please contact Tammy Clark at (607) 281-3152.**

### **Animal Science: Amazing Animal Diversity (Grades 7-10)**

**July 17-21 or August 14-18, 9:00 AM-12:00 PM**

Students in the Animal Science Summer Academy will explore the lives of animals from insects to alpaca. Activities include nature hikes, pond water sampling, owl pellet and fetal pig dissections, honey collection from our hives and learning about our classroom and barn animals. Students will gain experience using equipment to analyze samples, monitor animal health and extract honey. Much of our time will be spent outside or in the company of animals, so closed-toed shoes and clothes that can get dirty are a must!



## **Auto Technology: Pit Crew Challenge (Grades 7-10)**

**June 26-30, 9:00 AM-12:00 PM**

If you're an auto racing fan, this class is for you. You'll begin the week by creating a team with your classmates. You'll learn to safely and correctly operate an automotive lift, impact and tire machine and to identify automotive fluids. Teams will participate in a pit row competition.

## **Auto Technology: Get Charged Up (Grades 7-10)**

**June 26-30, 8:00 AM-12:00 PM**

Participants will learn how to retrieve and translate OBD I and II diagnostic codes with industry-leading scan tools and diagnose and test various electrical circuits using test lights and digital multimeter. Next you'll construct operating electrical switches, discover how an automobile engine functions and discuss and apply OHM's Law in an automotive setting. Participants also will learn to correctly and safely use pneumatic and electrical power tools.

## **Building Sheroes (Girls, Grades 6-8)**

**July 10-14, 8:00 AM-12:00 PM**

The middle school experience is complex for young girls and filled with a variety of pressures from peers, school, society and social media. Through activities and discussions that promote self-confidence, listening and communication skills, healthy relationships and foundations of personal health, girls can learn a strong sense of self-empowerment, build their emotional intelligence and learn how to advocate for themselves and their peers.

## **Career Exploration Family Reunion Week (Grades 7-9)**

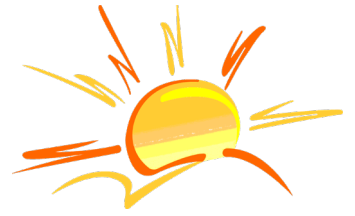
**June 26-30, 8:00-11:00 AM OR 12:00-3:00 PM**

Come have some fun exploring careers and some of the CTE programs offered on our campus. Take a glimpse into customer service through designing a family reunion T-shirt. Then, experience early childhood by learning about the importance of play. You'll research and create homemade games for preschoolers in your family to practice their math skills. Check out a fashion show, explore the color wheel in a sweet way, learn about properties of textiles and design your own collection by sketching and learning about croquis. Learn about nutrition and plan a healthy menu, then make a dessert everyone in the family will enjoy while you learn baking and decorating techniques. Wrap it up by learning about work ethic skills and putting them into practice working to create a bulletin board to welcome your family to the reunion!

## **CPR/First Aid (Students must be at least 16 years old)**

**July 17-19, 10:00 AM-12:00 PM**

Participants will complete an American Heart Association HeartSaver CPR and First Aid class. Skills gained will focus on Adult CPR, Child CPR, Infant CPR, AED, Choking, First Aid, Bandaging, Epi-Pens and Splinting. The class will incorporate hands-on skills and team dynamics. Students will progress from learning basic skills, to then being presented scenarios where they must as a team decide what steps should be taken and how best to help their patients. Students will leave proficient in CPR skills that can be used in their school and community settings when necessary.



## **Digital Media Arts: Stop Motion Animation Film (Grades 7-10)**

**July 10-14, 9:00 AM-2:00 PM**

This program is designed for students who want to bring creative writing, photography, set design and audio production together to create a 15-30 second animated mini-movie using a stop motion process. The video will be provided to students at the end of the program. Please bring a brown-bag lunch each day.

## **@GST BOCES Coopers Education Center**

**9579 Vocational Drive, Painted Post**

***Please note: There is no charge for courses at the Coopers Education Center.***

## **Animal Science: Songbird Sanctuary (Grades 7-10)**

**July 10-14, 9:00 AM-1:00 PM**

Calling all wildlife lovers! This week-long camp will immerse students into the world of birding. Students will learn to identify common NYS bird species by sight and sound. They will also build a blue bird box and homemade bird treats to take home. Upon completion, students will gain a better understanding of how wild birds affect the ecosystem and the diverse needs of different bird species.

## **Auto Technology: Let's Go Racing (Grades 7-10)**

**June 26-29, 9:00 AM-12:00 PM**

Participants will use two post automotive lifts to lift cars and practice "pit road" type tire changes, while being monitored for speed and accuracy. Students also will use a rim clamp tire machine to dismount, mount and balance tires in a timed competition. In addition, each camper will build a valve cover racer that they will race against other students, similar in fashion to a pine wood derby car, although much heavier and faster.

## **Cosmetology: Salon Chic Summer Academy (Grades 7-10)**

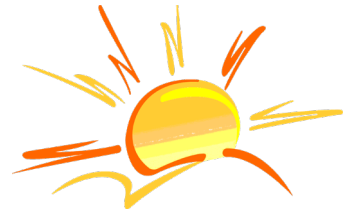
**July 5-7, 9:00-11:00 AM**

Do you enjoy making people feel better about themselves? Come to GST BOCES Cosmetology Summer Academy at the Coopers Campus. Each student will learn the importance of hygiene and sanitation, braiding, manicuring, pedicuring and plain facials. Summer of Innovation students will get to work one-on-one with senior students from the Cosmetology program.

## **Culinary Arts: Street Food I (Grades 7-10)**

**July 17-21 OR August 7-11, 9:00 AM-1:00 PM**

What is "street food" and why is it so popular? This type of food is gaining popularity as our American lifestyle seeks meals that can be prepared easily and inexpensively and still taste delicious. Spend a week exploring the current culinary trends surrounding street food and learn how it is affected by regional and cultural differences. A variety of street food options will be prepared daily, including Elote – Mexican street corn, Chicago-style hot dogs, samosas, pierogi and beignets. This camp is offered twice this summer.



## **Culinary Arts: Street Food II (Grades 7-10)**

**July 24-28 OR August 14-18, 9:00 AM-1:00 PM**

What is “street food” and why is it so popular? This type of food is gaining popularity as our American lifestyle seeks meals that can be prepared easily and inexpensively and still taste delicious. Spend a week exploring the current culinary trends surrounding street food and learn how it is affected by regional and cultural differences. A variety of street food options will be prepared daily, including empanadas, pad thai, churros and pot stickers. Students will participate in an off campus field trip to a local street vendor. This camp is offered twice this summer.

## **Digital Media Arts: Creative Ventures (Grades 7-10)**

**June 26-30, 9:00 AM-2:00 PM**

If you love art, this class is for you! You’ll practice computer graphics (Adobe Photoshop and Premiere), photography, video and vinyl graphics. You will create photo composites using two different images, a vinyl transfer for a T-shirt, a photo cup and a button. You also will produce a short video using key frame animation. Please bring a brown-bag lunch each day.

## **Digital Media Arts: Stop Motion Animation Film (Grades 7-10)**

**July 10-14, 9:00 AM-2:00 PM**

This program is designed for students who want to bring creative writing, photography, set design and audio production together to create a 15-second animated mini-movie using a stop motion process. The video will be provided to students and, if time allows, students also will create a physical flipbook to take home, as well.

## **@GST BOCES STEM Academy**

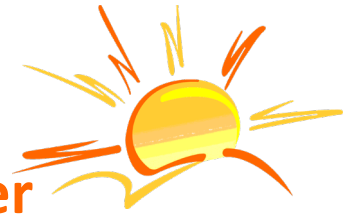
**STEM Academy at Corning Community College, Steuben Bldg. 2nd Floor**

***Please note: There is no charge for courses at the STEM Academy.***

## **Create Your Own Story World with Virtual Reality (Grades 7-10)**

**August 21-25, 9:00 AM-12:00 PM**

Have you ever read a story and wondered what that world looks like? For this workshop, students will experience worlds in virtual reality. They will learn and implement the elements of story telling, as well as create their own virtual story world for others to explore using COSpaces software and ClassVR headsets.



# @GST BOCES Wildwood Education Center

1126 Bald Hill Road, Hornell

*Please note: There is no charge for courses at the Wildwood Education Center.*

## Cisco Networking Academy (Grades 7-10)

**June 26-30, 8:00 AM – 1:00 PM**

Learn to build your own computer! We'll go step by step through the process, identifying each component along the way. If time allows, we'll set up a multi-monitor display that is a gamer's dream!

Day one: Identify basic Personal Computer (PC) components and attach motherboard, ram, hard drive, power supply, CD/DVD drive, etc.; introduce command prompt; PC tear down and PC component identification.

Day two: BIOS overview; create batch file; introduce networking cables; make networking cable.

Day three: DOS batch file; laptop disassembly part I; peer-to-peer network.

Day four: Laptop disassembly part 2; wireless networking lab.; overview of closets and networking devices.

Day five: Go over new PC parts; have students build virtual PC; Begin PC build; Complete PC build & do multi monitor set-up, if time allows.

## Intro to Cosmetology (Grades 7-10)

**June 26-30, 9:00-11:30 AM**

Each student will learn the importance of hygiene and sanitation, manicuring, pedicuring, basic color theory, color application, blow dry techniques and thermal hairstyling. The Summer of Innovation students will collaborate and work one-on-one with our senior students.

## Criminal Justice: CSI (Grades 7-10)

**June 26-30, 9:00 AM-12:00 PM**

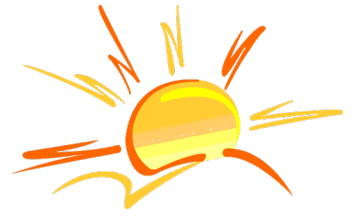
Participants of this academy will learn through a variety of methods to include: short lectures (which will include a crime scene technician or police investigator as a guest speaker), "hands-on" activities and role-playing. Each day will include a short mystery that students must solve.

Photography can be a vital part of the criminal trial process because it provides the court with visual aids to depict what may have happened at a crime scene. Therefore, participants will also learn the correct procedure and process of crime scene photography.

Besides photography, the following areas will be explored during the academy:

- the importance of DNA to a criminal investigation
- how to make a plaster mold from a foot impression
- the classifications of fingerprints and how to dust for fingerprints at a crime scene
- how to collect and analyze trace evidences
- group activities to teach students teamwork
- different competitions throughout the week that are based around CSI and law enforcement.





## **Culinary Arts: Making Lots of Dough (Grades 7-10)**

**July 17-21, 8:00 AM-12:00 PM**

Students will learn about a biological leavening agent/yeast and how it works in yeast bread production. They will complete an integrated science lesson using yeast and learn fundamental skills in the culinary industry, including kitchen safety and sanitation, measuring using kitchen tools, operating kitchen equipment and how to read and follow a recipe. Students will prepare yeast bread each day.

## **Culinary Arts: Pizza in the USA (Grades 7-10)**

**July 24-28, 8:00 AM-12:00 PM**

Students will “travel” across the USA by learning about the different types of pizzas that are famous in different areas of our country and the secret sciences behind their dough production. These will include iconic pizzas like New York style, Chicago style, flatbread pizza and California pizza.

## **@Notre Dame High School**

**1400 Maple Avenue, Elmira**

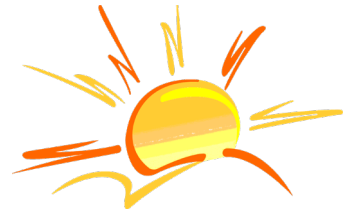
**Looking for something fun for your kids to do this summer? Check out the wide variety of summer academies being offered at ND! All registrations are being taken online at [www.notredamehighschool.com](http://www.notredamehighschool.com). Checks should be made payable to Notre Dame High School and note Summer Camp on the memo line. Mail your payment to: Attn: Michelle Barkley, Notre Dame High School, 1400 Maple Avenue, Elmira, New York 14904. All camps are filled on a first come, first served basis. Registration for the camp is not complete until we have received payment. If you prefer to drop your payment off at Notre Dame High School, you may drop off your payment to the Main Office between 8:00 AM and 3:15 PM Monday through Friday. Please note, students registering for a morning and afternoon session may pack a lunch and eat in the cafeteria or outdoors, weather permitting. Further details will be sent via letter to registrants.**

## **Cooking 101 (Grades 4-9)**

**June 26-30, 8:00-11:30 AM**

Do you enjoy watching cooking shows? Wish you could cook? Come join us for a week full of creating tasty recipes from all over the globe. The week will end in a “chopped” style competition showcasing the skills you have learned.

**Fee: \$135**



## **Just Desserts (Grades 4 - 9)**

**June 26-30, 12:00-3:30 PM**

Come for a fun-filled week of making tasty treats. Learn the basics behind baking by creating new desserts each day. Participants will explore making everything from brownies and cupcakes to crème brûlée. Learn proper measuring techniques as well as the importance of following a recipe.

**Fee: \$135**

## **Scrapbooking Secrets (Grades 4-9)**

**July 5-7, 12:00-3:30 PM**

Students will learn the secrets to scrapbooking and will be making their own scrapbook full of their own creations, memories, photographs, writings, magazine clippings and other creative materials. The class will experiment with color, texture, combinations and symmetry. Students will make a scrapbook in this academy.

**Fee: \$60**

## **Curious Writers (Grades 4-9)**

**July 10-14, 12:00-3:30 PM**

Students will learn to “turn off the editor” and write creatively, using various creative writing books and tools. We will use an assortment of media and spaces to draw inspiration from. The emphasis will be on “first thoughts” and free-writes that help students get in touch with topics they can explore more and also ultimately use to write academic papers.

**Fee: \$100**

## **Poetry and Photography (Grades 4-9)**

**July 17-21, 12:00-3:30 PM**

Students will take pictures or find pictures based on poetry to help inspire their poetic writing. Participants will learn about how emotions and experience are conveyed in both poetry and photography and learn how to match the emotion and experience of poetry to pictures and vice versa. Students will share their curated poems and pictures with each other and also do a small photo/poetry autobiography.

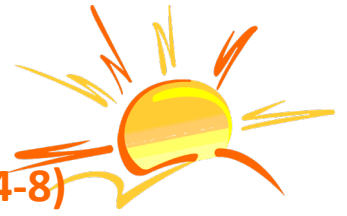
**Fee: \$100**

## **Comic Creations Camp (Grades 4-9)**

**July 24-28, 12:00-3:30 PM**

Does your reader love graphic novels? They are not alone. Join with others to learn about the origin and history of graphic novels from other cultures. Students will curate their own graphic novel using either their own drawings and illustrations or by using computers or other tools to help them illustrate their stories. Students will each leave with their own graphic novel at the end of the week.

**Fee: \$100**



## The Summer Seminar on the Performing Arts (Grades 4-8)

**July 31-August 11, 8:00 AM-3:30 PM**

This two-week musical theater day camp explores all three singing, acting and dancing genres by working toward an end-of-session show. The final performance will entertain family and friends with skits, musical numbers and dances all relating to that summer's specific theme. All students are guaranteed to be in at least three numbers. The Summer Seminar will be taught by Joyce Baldwin, who has more than 30 years of teaching experience in the fine arts. She has performed professionally alongside such names as Frankie Avalon, Eric Estrada and Tony Award winners Lindsay Mendez and J Robert Spencer. She has graced the stages of venues across the globe, including Radio City Music Hall, all five Fox Theatres, Deutsches National Theater and the Danny Kaye Theater. Her students have gone on to perform on Broadway, national tours, Netflix, Pilobolus and other professional dance companies. Joyce ran the SSPA in Elmira for 20 years and for five years in Massachusetts.

**Fee: \$350**

## Science & Discovery Center

- Please, go to [www.sciencediscoverycenter.org](http://www.sciencediscoverycenter.org) to register.
- Camp costs vary.
- All camp registrations are on a first come, first served basis.
- Registration is not complete until all registration fees are processed.
- Space is limited. Register early.
- A limited number of financial camperships are available to families in need. Applications are available on our website.
- Like us on Facebook for the most up-to-date information.

## Once Upon a Time (Ages 4-6)

**July 6-7, 8:30 -11:00 AM**

**Location: Spencer Crest Nature Center, Corning**

Come get lost inside a good book! Jump into your favorite stories with a storybook read-along, and then create artwork or solve stem challenges based on what we read! Can you build a gumdrop house for your little pig? Do you know the lifecycle of a butterfly? Join us for some fun stories and harness your creativity to become young engineers!

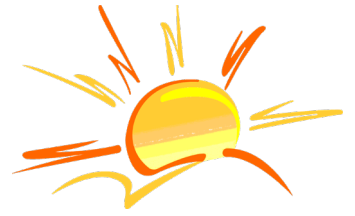
*\*Child must have turned 4 years old and able to bathroom independently prior to attending camp.*

## Camp Curiosity (Grades K-1)

**July 10-14, 8:30 AM -12:30 PM**

**Location: Arnot Mall, Horseheads**

What's in the box? Why do balloons float? Do you know what makes a rainbow? Join us for a week of discovery and exploration as we answer these questions and more! Campers will explore light refraction, experiment with balloons, use their senses to uncover secrets, and spend a week finding the answers to some of world's greatest questions!



## **Storybook Adventures (Grades K-1)**

**August 7-11, 8:30 AM -12:30 PM**

**Location: Erwin Valley School, Painted Post**

There's so much to discover both inside and out of a good book's cover! Dive into some of your favorite stories and bring them to life! Make the perfect bed for Goldilocks. Help the Three Billy Goats Gruff cross the bridge and stay safe from the trolls. Does buttered bread land more often butter side up, or butter side down? Let's find out! Each morning we will set the theme for the day with a read-aloud story, followed by some fun, hands-on activities.

## **Nature Navigators (Grades 1-3)**

**June 26-30, 8:30 AM -12:30 PM**

**Location: Spencer Crest Nature Center, Corning**

Discover the wonders of the natural world in a week of exploration at the Spencer Crest Nature and Research Center! Daily nature walks will allow campers to get outside and explore acres of trails and ponds. Campers will explore everything from plant life through creating nature portraits, leaf rubbing and nature painting, to solar energy by creating a solar oven and sun printing. Nature Navigators allows campers to experience nature first hand and foster a sense of wonder for the world around them!

## **Mad Scientist Training Academy I (Grades 1-3)**

**June 26-30, 8:30 AM -12:30 PM**

**Location: Arnot Mall, Horseheads**

Roll up your sleeves and come make a mess with us! This week campers will get a little messy while experimenting with chemical reactions. Campers will make sticky, slimy, fizzy and fluffy stuff out of everyday materials. Have fun making fluffy slime, squish painting, creating some messy art projects, gummy worms and more.

## **The Art of Color (Grades 1-3)**

**July 17-21, 8:30 AM -12:30 PM**

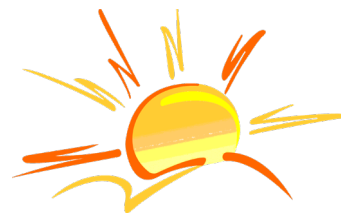
**Location: Arnot Mall, Horseheads**

**or**

**August 21-25, 8:30 AM -12:30 PM**

**Location: Erwin Valley School, Painted Post**

Everyone knows what their favorite color is, but do you know where colors come from and how colors are created? Campers will get to be part artists, part scientists, investigating color theory through light and pigment. Campers will create their own artist's color wheels, witness color mixing through marbling paper, and conduct color-changing flower science experiments. We will explore the science of color by investigating rainbows, exploring chromatography, color mixing, painting, and more!



## **Clever Contraptions (Grades 1-3)**

**July 31-August 4, 8:30 AM -12:30 PM**

**Location: Erwin Valley School, Painted Post**

Campers will discover, experiment, and explore the world of engineering while creating Clever Contraptions! This week of fun-filled, hands-on activities focuses on simple machines, circuits, optical illusions and more. Campers will use the engineering design process as they build looming towers, craft stick catapults, paper roller coasters, windmills and even cleverer contraptions that allow campers to build, create and invent, all while using their imagination!

## **Mad Scientist Training Academy II (Grades 1-3)**

**August 14-18, 8:30 AM -12:30 PM**

**Location: Erwin Valley School, Painted Post**

Prepare to have your mind blown as you experiment with the chemistry, physics and tools behind some of our favorite chemical reactions. Campers will make sticky, slimy, fizzy and fluffy stuff out of simple materials. We will make some gooey slime, create some fun eruptions and a lot more messy fun things this week!

## **Blast Off (Grades 1-3)**

**August 21-25, 8:30 AM -12:30 PM**

**Location: Arnot Mall, Horseheads**

3...2...1...Blast off! Get ready to launch to the moon and beyond in this fun-filled week of all things space! Launch stomp rockets, build a lander to get your astronauts safely back to Earth and discover different parts of the galaxy. Along the way, we'll make discoveries, explore gravity, learn about the planets, and figure out why the International Space Station rotates!

## **Outdoor Art (Grades 4-6)**

**July 10-14, 8:30 AM -12:30 PM**

**Location: Spencer Crest Nature Center, Corning**

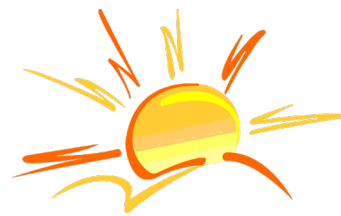
Nature can inspire art and provide the tools to make it - join us for a week of art influenced by the outdoors! Hike through the trails at Spencer Crest Nature and Research Center and get inspired by the beauty of nature. Turn your creative ideas into different kinds of art projects. Campers will experiment making colors from natural ingredients, use the sun to create one of a kind prints, paint an outdoor scene and try your hand at weaving with things found outside.

## **Homemade Science (Grades 4-6)**

**July 17-21, 8:30 AM -12:30 PM**

**Location: Spencer Crest Nature Center, Corning**

Budding scientists will conduct hands-on experiments during this fun-filled week using things you can find in your very own house! Campers will create chemical reactions with lemon volcanoes, make your own slushy in a bag, make ink float, create bouncing bubbles, make an egg glow in the dark and more during this exciting camp.



## **The Great Outdoors (Grades 4-6)**

**July 24-28, 8:30 AM -12:30 PM**

**Location: Spencer Crest Nature Center, Corning**

Join us for a fun-filled week of outdoor exploration. Campers will embrace the world around them with a week of nature science, exploration and art. Daily walks will allow campers to observe plant, animal and insect life and play nature-related observation games. We will learn about local plant life and pigments through creating nature portraits, leaf rubbing and nature painting. Build bird feeders, small animal shelters, create sun prints and art projects from nature.

## **Baking (Grades 4-6)**

**July 24-28, 8:30 AM -12:30 PM**

**Location: Corning-Painted Post High School**

What do cookies, bread and cake all have in common? Measurements and chemistry! We will be kneading, rolling, scooping, measuring and having fun while discovering the science behind baking. Find out how to make bread rise, what makes the perfect chocolate chip cookie and end the week with a baking and decorating challenge!

## **Cooking (Grades 4-6)**

**July 31-August 4, 8:30 AM -12:30 PM**

**Location: Corning-Painted Post High School**

Cook up some science and join us for a week of cooking fun! Campers will learn how cooking and science go hand-in-hand while they prepare and taste recipes for a different snack, meal or dessert each day. Learn to mix, measure, follow and write your own original recipes! Test your creative recipes by cooking and tasting each new dish. On Friday, compete in a pie-making contest to wrap up this fun-filled week!

## **Make It Move (Grades 4-6)**

**August 7-11, 8:30 AM -12:30 PM**

**Location: Arnot Mall, Horseheads**

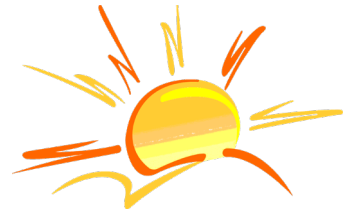
Put your imagination and creativity to work! Campers learn basic engineering concepts while creating all kinds of contraptions that move! During this camp, your young engineer will design creative machines of their own, including a marble run and a cardboard automaton. We will explore flight with gliders and speed with Co2 cars. Campers participate in building challenges to create simple machines that fly, speed, and race using basic materials, tips from famous inventors, and most importantly, their minds!

## **Fizzy, Messy, Slimy (Grades 4-6)**

**August 14-18, 8:30 AM -12:30 PM**

**Location: Arnot Mall, Horseheads**

Grab some goggles and get ready to get messy during this week of chemistry experiments in all their slimy, messy, foamy, fizzy, colorful fun! Campers will learn a surprising use for red cabbage, make gummy worms, discover how electroplating works and, of course, make color changing slime! Come celebrate the science of making a mess!



# @Tanglewood Nature Center

443 Coleman Avenue, Elmira

## Pricing and Hours:

- Regular Day 10 AM-3 PM - \$190
- Extended Day 9 AM-4 PM - \$240
- Extended Day 8 AM-5 PM - \$290
- More options available online

## Registration:

Registration is on a first come, first served basis. You must be a member of Tanglewood to register a child for camp – membership fees are not included in the camp registration price. Registrations can be done online only at [www.tanglewoodnaturecenter.com](http://www.tanglewoodnaturecenter.com). For more information, contact Deanna at (607) 732-6060 ext.100.

\* Please note: Your child must have *completed* at least the earliest grade in the session to register – for example, your child must have finished Kindergarten to enroll in a Grades K-2 session.

## Camp Yucky (Grades K-2)

June 26-30

- Explore the muddy, slimy, oozy, and sometimes yucky side of science
- Dissect an owl pellet while learning about digestion
- Meet Tanglewood's collection of creepy crawlies
- Learn how to find animals based on animal tracks and scat
- This camp is ideal for kids who don't mind getting a little messy and are ready for hands-on nature adventures!

## UnEarthed (Grades 3-5)

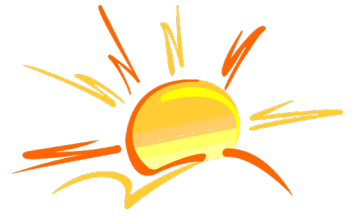
June 26-30

- Spend the week outside and in the museum getting a hands-on experience
- Learn about topics like the 4 elements (earth, air, water, and fire) and chemistry while doing science experiments
- Create a memory book by practicing your photography skills out on the trails
- This camp is ideal for creative, inquisitive minds that enjoy being outdoors

## Animal Aviators (Grades K-2)

July 3-7 (no camp on Tuesday)

- Explore the science of flight, wings, and the animals who use them
- Get up close with our winged animal ambassadors like owls and insects
- Learn about how flying works with activities like parachute games and an egg drop
- This camp is ideal for any aviators in training looking to have some hands-on fun



## **NSI (Nature Science Investigation) Camp (Grades 3-5)**

**July 3-7 (no camp on Tuesday)**

- Play games in the woods that will fine tune your animal senses
- Explore the creek to find camouflaged creatures and hidden secrets of the soil
- Find fossils and rearrange owl pellet bones to piece together mysteries of the past.
- Take part in various science experiments inspired by nature
- This camp is ideal for inquisitive minds that enjoy being outdoors

## **Frogs 'n' Friends (Grades K-2)**

**July 10-14**

- Spend the weekend learning about amphibians and what makes them unique.
- Go frog catching in our ponds and hunt for toads on the trails
- Meet various amphibian animal ambassadors and learn how Tanglewood cares for them.
- This camp is ideal for any kids who loves frogs, toads and all amphibians and won't mind getting a bit messy.

## **The Great Adventure Camp (Grades 3-5)**

**July 10-14**

- This camp will put your outdoor skills to the test (in a fun way)
- Learn how to use a compass, read a map, and other easy orienteering skills
- Practice survival skills like berry identification, lean-to construction, fishing, and fire starting all in a safe environment
- This camp will consist of various hikes on our trails so be prepared to hike!
- This camp is ideal for kids who like being outside for most of the day

## **Nature's Superpowers (Grades K-2)**

**July 17-21**

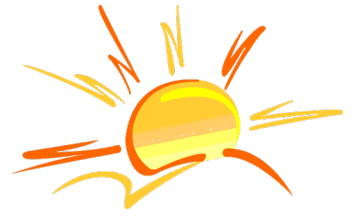
- Explore how animal adaptations are nature's true superpowers
- Learn about animals that inspired super heroes like Batman and the Wasp
- Test your super powers during an obstacle course and other challenges
- Meet super animals like Sophie the Owl and General the Bearded Dragon
- This camp is ideal for any super hero in training ready to have some hands-on nature fun!

## **Screens to Streams Camp (Grades 3-5)**

**July 17-21**

- Learn about outdoor skills inspired from video games like Minecraft, Pokémon, Animal Crossing and Zelda: Breath of The Wild
- Get creative and build your own forts using resources around you
- Learn basic survival techniques like plant, animal and mineral ID
- Explore our woods with guided hikes and a campfire at the end of the week
- This camp is ideal for campers who want to put their video game skills to the test In real world





## **Dino Dig (Grades K-2)**

**July 24-28**

- Explore the woods to find your very own fossils
- Learn about what prehistoric life lived in your own backyard
- Get up close and personal with the dinosaur descendants that we have here at Tanglewood
- Create and hatch your own dinosaur egg to take home
- This camp is ideal for any dinosaur, reptile, or nature lover

## **Nature's Mysteries (Grades 3-5)**

**July 24-28**

- Nature is one big mystery, so spend the week being a detective
- Explore the woods to find your very own fossils
- Crack the code on mysteries such as how many eyelids owls have, how rainbows are made and how flies walk on the ceiling
- Collect clues all week to solve the scavenger hunt on the last day of camp
- This camp is ideal for any curious kids who are ready to learn, discover and solve mysteries all week

## **Critter Care (Grades K-2)**

**July 31-August 4**

- Learn how we care for more than 40 different types of animals at Tanglewood
- Discover the tricks of training animals with positive reinforcement – working with animals like mammals, birds, and more!
- Personally meet each major animal group and care for our critters from tooth to toe!
- This camp is ideal for kids who love animals, want to learn how Tanglewood cares for the animals that call us home, and don't mind getting a little messy.

## **Animal Pawsibilities (Grades 3-5)**

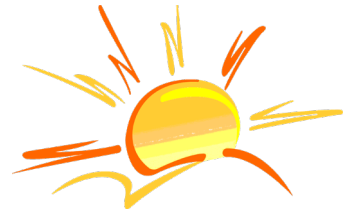
**July 31-August 4**

- Discover what amazing opportunities there are to work with animals!
- Care for some of animals that call Tanglewood home
- Uncover the basics of animal training when working with animals like birds and mammals
- Put your skills to the test with practice "X-rays" and pet exams
- This camp is ideal for kids who want to work with animals when they grow up and are ready for hands-on animal fun!

## **Go Wild! (Grades K-2)**

**August 7-11**

- Go home laughing and grass-stained after a day of playing games
- Sculpt mud pies and meet some muddy animals
- Perform science experiments like making your own lava lamp
- This camp is ideal for kids who enjoy being outdoors and don't mind getting a bit messy



## **Go Wild! (Grades 3-5)**

**August 7-11**

- Go home laughing and grass-stained after a day of playing games
- Sculpt mud pies and make fossil prints
- Create works of art with natural items found in the woods
- Work together as we play cooperative and team building games
- This camp is ideal for kids who enjoy being outdoors and don't mind getting a bit messy!

## **Forts and Forests (Grades K-2)**

**August 14-18**

- A week full of fun on our trails!
- Go on a wilderness adventure and build a fort with your friends
- Make crafts using natural materials
- Play and explore in the woods and discover who or what might be living there
- This camp is ideal for kids who love being outdoors and don't mind getting a bit messy!

## **Forts and Forests (Grades 3-5)**

**August 14-18**

- A week full of fun outdoors!
- Go on a wilderness adventure and build a fort with friends
- Play in the woods and explore who or what might be living there
- Learn how to find and identify animals based on animal tracks and scat
- Use imaginative play to construct forts with fellow campers out of materials we find in the forest
- This camp is ideal for kids who love being outdoors and don't mind getting a bit messy!

## **@Wings of Eagles Discovery Center**

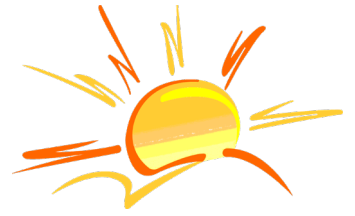
**339 Daniel Zenker Drive, Big Flats**

**Wings of Eagles Discovery Center courses are \$225 for a full day course. An extension program that will run from 3:00 PM-5:00 PM after the regularly scheduled day camp is offered for an added fee of \$100 per child per camp week. A limited number of scholarships are available for children who qualify. Please call 607-377-1878 for more information. To register for courses at the Wings of Eagles, please go to [www.wingsofeagles.com/education](http://www.wingsofeagles.com/education).**

## **Maker Space (PreK)**

**July 10-14, 9:00 AM-3:00 PM**

This class is designed for our 3-4 year old learners and will be offered as a full-day class. Students in this PreK group will get an introduction to our maker space and will have the opportunity to explore and use engineering and math skills.



## **Fun with Science Tot (Grades K-2)**

**July 10-14 9:00 AM-3:00 PM**

Household products are curiously inspiring: with a splash of food coloring and a teaspoon each of liquid starch and glue, we can concoct an elastic, slimy glob technically known as a “non-Newtonian fluid.” We even make our own bubble gum! Come out and enjoy our course in the hands-on and edible. This is our Tot version, appropriate for grades K-2.

## **Maker Space Tot (Grades K-2)**

**July 17-21 9:00 AM-3:00 PM**

Are you curious about how things work? You can use your own imagination and creativity during this week using LEGOs, simple science and stories. Come explore with us!

## **Minecraft Maker Space (Grades K-2)**

**July 17-21 9:00 AM-3:00 PM**

Do you love Minecraft? This class is sure to be a creeper! Students will explore Minecraft-themed crafts, coding and more.

## **Exploratorium (Grades K-2)**

**July 24-28, 9:00 AM-3:00 PM**

Discover all that the world has to offer in this fun and exciting class about how the world works. We will discover and explore physics, chemistry, biology and more.

## **Lego Construction Playdate (Grades K-2)**

**July 24-28, 9:00 AM-3:00 PM**

We built this city with Legos! Students will work together to build a city that will be displayed at the museum! While engineering our city, students will learn about all the important parts that make up a successful city in their neighborhood.

## **Maker Space Tot 2 (Grades K-2)**

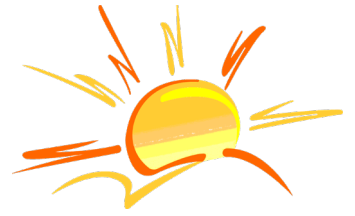
**July 31-August 4, 9:00 AM-3:00 PM**

Come to our maker space and explore hands on crafts, sewing, 3-D printing, LEGOs, programming and robotics. This session will focus on making with our little learners and will be part two of the class offered earlier in the summer.

## **Ms. Burt’s Brick Party (Grades K-2)**

**July 31-August 4, 9:00 AM-3:00 PM**

Are you a fan of the Lego movies? Come party with Ms. Burt and Emmett as we engineer and design everything that is awesome. It will be cool being part of a team. Everything is awesome when you are living and learning in this course.



## **Base Camp Space (Grades K-2)**

**August 7-11, 9:00 AM-3:00 PM**

Did you know that we are projected to have a man on Mars by 2040? Learn about Mars and experience how we will colonize the planet in the near future. This interactive course will include science, technology, math and art.

## **Pokémon Trainer Course (Grades K-2)**

**August 7-11, 9:00 AM-3:00 PM**

Students embark on a Pokémon training journey including building with Legos, STEM-themed Pokémon projects and 3D printing. Come on in, we gotta catch em all!

## **Lego Learners With SPIKE (Grades K-2)**

**August 14-18, 9:00 AM-3:00 PM**

Students will build and create various engineering designed projects using LEGO SPIKE Robotic Kits. This hands-on class includes beginning coding skills.

## **Wings & Things (Grades K-2)**

**August 14-18, 9:00 AM-3:00 PM**

Discover and explore how animals and aircrafts have a lot in common. Investigate animals that can fly and how they have similar features to aircraft. This program is hands-on and project-based.

## **Old MacDonald's Farm (Grades K-2)**

**August 21-26, 9:00 AM-3:00 PM**

This class is all about the animals. Would you be a good farmer? Learn new and interesting facts about all sorts of farm animals, including how to care for them. We will have animals on premise for you to get hands on with.

## **Lego Learners With SPIKE 2 (Grades K-2)**

**August 28-September 1, 9:00 AM-3:00 PM**

Students will build and create various engineering designed projects using LEGO SPIKE Robotic Kits. You do not need to have completed Lego SPIKE 1 to participate in this class.

## **Building Construction Maker Space (Grades 3-8)**

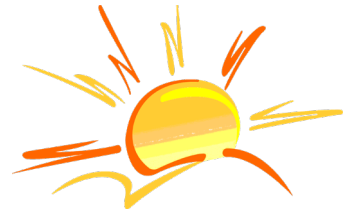
**July 10-14, 9:00 AM-3:00 PM**

Our Makerspaces goal is to provide students with a hands-on, creative, user friendly, "anytime, anyplace", opportunity to build and create things. This class will allow students the opportunities to use basic construction building tools and build prevocational skills. We will be constructing projects that could include yard games like corn hole and Yahtzee! If you joined us last year, come again and make something brand new.

## **EV3 Lego Robotics (Grades 3-8)**

**July 17-21, 9:00 AM-3:00 PM**

Discover all that the world has to offer in this fun and exciting class about how the world works. We will discover and explore physics, chemistry, biology and more.



## **Forensics (Grades 3-8)**

**July 24-28, 9:00 AM-3:00 PM**

Solve the mystery at the museum while building your skills at forensics. This class will take a look back at murder mysteries from the past. You will use your STEM skills to solve the case.

## **Take Flight (Grades 3-8)**

**July 31-August 4, 9:00 AM-3:00 PM**

Hop into the pilot seat, learn the basics of aviation; take the controls and get ready to learn the basics behind flight. We will build airplanes and learn using actual flight simulators. Our new and upgraded virtual reality experience is heart stopping fun and excitement. This non-stop action is great for students that love video games and science. We will also be exploring, building, and launching rockets during this take flight course.

## **Fun with Science (Grades 3-8)**

**August 7-11, 9:00 AM-3:00 PM**

Household products are curiously inspiring: with a splash of food coloring and a teaspoon each of liquid starch and glue, we can concoct an elastic, slimy glob technically known as a “non-Newtonian fluid.” We even make our own bubble gum! Come out and enjoy our course in the hands-on and edible.

## **Engineering Design with Water Fun (Grades 3-8)**

**August 14-18, 9:00 AM-3:00 PM**

Learn science, math and engineering while playing with the design of rollercoasters and water slides. Have you ever wondered why rollercoasters work? Why are water slides so fast? Could we build a better slip and slide? This hands-on camp will teach you how to think like an engineer. (Students will need to bring/wear under their clothes their bathing suits/clothes that can get wet and towels daily, as well as sunscreen.)

## **Robotics (Grades 3-8)**

**August 21-26, 9:00 AM-3:00 PM**

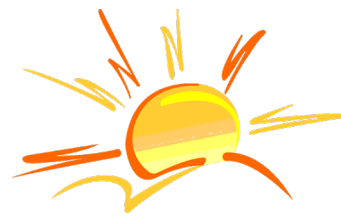
This open robotics maker space lets you take the wheel. We will have lots of different robotics options including NXT, RCX, VEX, drones and ROV. Student can explore each of these options or dive on into one that sparks their interest.

## **Prevocational Skills (Grades 3-8)**

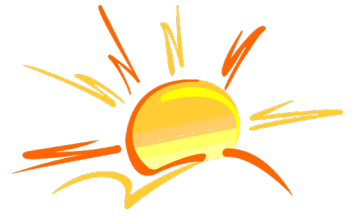
**August 28-September 1, 9:00 AM-3:00 PM**

Learn about jobs that are in high demand and have a shortage of members. Get hands-on experience in construction, culinary, automotive and health care trades. Learn how to make yummy desserts.

# Notes







## Summer of Innovation 2023 partners:

- Corning Community College – [www.corning-cc.edu/student-life/steahm.php](http://www.corning-cc.edu/student-life/steahm.php)
- GST BOCES – [www.gstboces.org](http://www.gstboces.org)
- Notre Dame High School – [www.notredamehighschool.com](http://www.notredamehighschool.com)
- Science & Discovery Center – [www.sciencediscoverycenter.org](http://www.sciencediscoverycenter.org)
- Tanglewood Nature Center and Museum – [www.tanglewoodnaturecenter.com](http://www.tanglewoodnaturecenter.com)
- Wings of Eagles Discovery Center – [www.wingsofeagles.com](http://www.wingsofeagles.com)