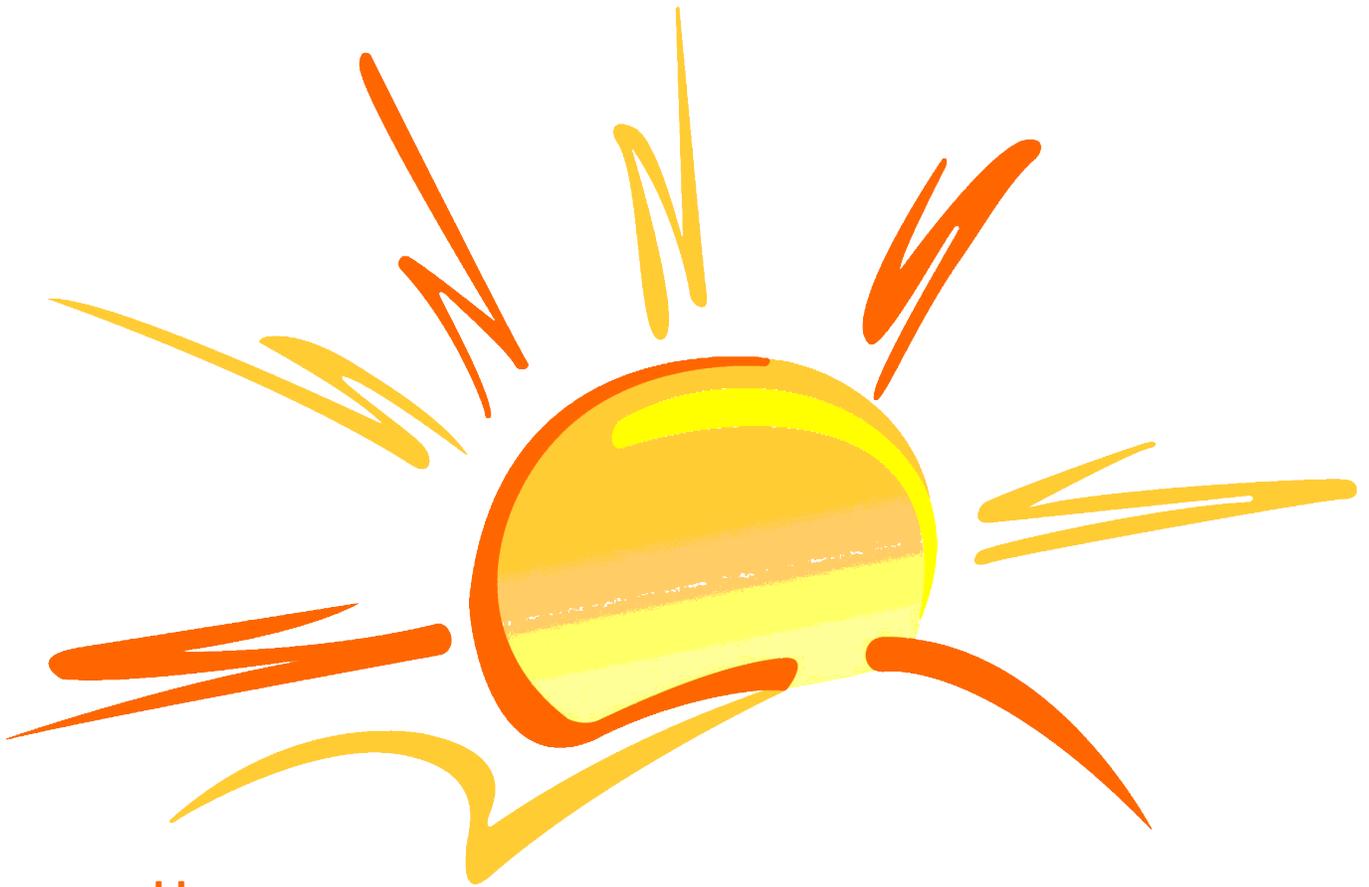
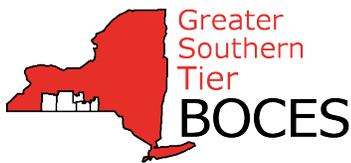


Summer of Innovation 2021

Course Guide



Sponsored by:



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.sunycorning.com/stem-youth-college
- First Tee-Corning – www.firstteecorning.org
- GST BOCES – www.gstboces.org
- Notre Dame High School – www.notredamehighschool.com
- Science & Discovery Center – www.sciencediscoverycenter.org
- Tanglewood Nature Center and Museum – www.tanglewoodnaturecenter.com
- Wings of Eagles Discovery Center – 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 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:

- First Tee-Corning
- Science & Discovery Center
- Tanglewood Nature Center and Museum
- Wings of Eagles Discovery Center

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



@Corning Community College

1 Academic Drive, Corning

EXPLORE. DISCOVER. CREATE.

STEM Youth College @ SUNY Corning Community College

Powered by Black Rocket, a national leader in technical education.

Coding? Game Design? Javascript? Minecraft? Python? Roblox?

If any of these are familiar to you or your kids and it's something you'd like to do, then the STEM Youth College through SUNY CCC is the right place to be in 2021!

Ready to Launch?

Our online/virtual options are available starting June 7.

For more information: www.sunycorning.com/stem-youth-college

Call 607-936-5501 or email ilearn@corning-cc.edu with questions.

Select from:

3-D Game Design with Unity

Battle Royale: Make your 1st Fortnite Style Video Game

Code Your Own Adventure! Interactive Storytelling

eSports Apprentice – Streamers and Gamers

JavaScript Developer Jam

Minecraft Animators

Minecraft Modders

Pokemon Masters: Designers & 3-D Makers Unite!

ROBLOX Coders & Entrepreneurs!

Rocket Kart Racers: Design A Mario Kart Style Game

Virtual Reality: The Future is Now

YouTube Content Creators

App Attack!

App.IO: Make Your First Multiplayer App

Code Breakers

Inventor's League – Prototyping for the Future!

Make Your First Video Game!

Minecraft Designers

Minecraft Redstone Engineers

Python Programmers

ROBLOX Makers

Video Game Animation

Young Authors

YouTube FX Masters

Full descriptions of each course are available on the website (2 levels, with recommended age groups: 8-11 and 11-14)

Also available at SUNY Corning Community College this summer:

Full STEAHM Ahead! (Girls, Grades 6-7)

August 2-6, 8:00 AM-4:00 PM, Commons Building (In Person)

The Full STEAHM Ahead Summer Workshop is a week-long program for middle school girls that focuses on Science, Technology, Engineering, Arts, Health and Math education. Approximately 24 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 Planetarium; perform in 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. Applications are available in local schools.



@First Tee-Corning's Indoor Golf & Sports Training Center at the Arnot Mall

The Science of Golf

Saturday June 5, 12 and 19, 10:30 AM to 12:00 PM

Cost: \$60.00 (covers all three sessions)

Golf is not only an athletic game, it is a mental game that is affected by many factors. To help develop an understanding of the engineering, technology and science factors that affect how we play the game, First Tee-Corning is proud to be offering our Science of Golf class again in 2021. Classes will explore the relationship between STEM concepts and how they affect the success of playing the unique game of golf. From golf course factors to equipment design to how the use of technology impacts all level of players today, students will be introduced to these concepts to help them improve their own game. This opportunity is available for any youth 10 years old and older and all supplies provided as needed.

Register at www.firstteecorning.org

@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 can be found at 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 (Grades 7-10)

July 19-23 or August 16-20, 8:00 AM-12:00 PM

The Animal Science Summer Academy will give students hands-on animal care and handling experience. Each day will include care for animals including alpacas, a donkey, chickens, dogs, rabbits and various small mammals and reptiles. Students will clean enclosures, prepare daily diets, provide enrichment activities and learn how to groom and monitor the health of animals. Throughout the week, students will participate in lab activities and practice positive, reward-based training techniques.

Auto Body: Intro to Custom Paint and Graphics (Grades 7-10)

June 28-July 2, 9:00 AM-12:00 PM

Students will learn custom paint techniques used in the industry. They will achieve this using airbrushes, paint spray guns, stencils and free-hand techniques. They will layout and complete a pre-determined project. Then, they will be able to come up with their own design for a panel. If time permits, students will learn about the exciting technique of water transfer printing, also known as hydrographics.



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

June 28-July 2, 8:00 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 and participating in a pit row competition. You'll learn to operate a lift, operate tire machines, identify fluids, check and adjust air pressure and take a field trip to a local auto dealership.

Cosmetology (Grades 7-10)

July 6-9, 9:00 AM-2:00 PM

We will explore how to give a manicure and facial, braiding techniques, applying facial make-up and color theory. On our first day, students will learn three different types of braiding using our long-haired manikins. The next day, students will learn how to give a basic manicure, then practice on a partner. For our day of facials, students will make their own facial masks from natural ingredients based on their skin type (dry, oily or normal). Students will learn the steps of a facial and practice on a partner. On our last day, will have to have fun activities with edible materials and learn color theory that explains primary, secondary and tertiary colors. We have disposable make-up applicators, as well as cosmetics to use on the students and show them helpful hints and how to properly apply facial make-up.

Culinary Arts: Just Dough With It (Grades 7-10)

June 28-July 2, 9:00-11:00 AM

Students will learn how to make soft pretzels and their own pasta from scratch tossed with summer vegetables, create traditional potato pierogi, explore the differences in various types of muffins, and at the end of the week, learn how to make and decorate a summer-themed cake.

@GST BOCES Coopers Education Center

9579 Vocational Drive, Painted Post

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

Auto Body: Custom Painting and Graphics (Grades 7-10)

June 28-July 2, 9:00 AM-12:00 PM

Students will learn custom paint techniques used in the industry. They will achieve this using airbrushes, paint spray guns, stencils and free-hand techniques. They will layout and complete a pre-determined project. Then, they will be able to come up with their own design for a panel. If time permits, we will learn about the exciting technique of water transfer printing, also known as hydrographics.

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

June 28-July 2, 9:00 AM-12:00 PM

Campers will be introduced to and use many power and hand tools, including MIG welders. Students will have a chance to work as a team as they compete their way through the week, scoring points for each event, including a pit row challenge. We will ultimately crown a winning team for the week. Participants will build, modify and then race valve cover racers (these are an engine cover, mounted to a skateboard, that runs on a track). They will have a chance to try different arrangements with their racers and ultimately see who can make the fastest racer. Finally, we will visit either Alfred State College Motorsports program or Woodhull Raceway.



Culinary Arts: Culinary Globe Trotters (Grades 7-10)

June 28-July 1, 9:00 AM-1:00 PM

Every region in every country of the globe has a culinary specialty for their area of the world. Their specialties are usually inspired by what can be produced in that area. Recipes have been developed over the years and have been imbedded in the rich history of that region. We will take this week to explore four different styles of food including Italian, Asian, Mexican and French. What is your favorite?

Culinary Arts: Pizza Party (Grades 7-10)

July 6-9, 9:00 AM-1:00 PM

Everybody loves pizza, but did you know that pizza doesn't have to just be made in the traditional manner. Have you ever had pizza for breakfast? How about for dessert? Learn all of the creative and fun ways to design your own pizza pie. What will be your favorite: Eggs and bacon on a flaky biscuit crust, feisty Mexican flavors on homemade tortillas, pizza pockets sandwiched in a savory pastry, or a chewy gooey decadent s'more dessert pizza? Come to the GST BOCES Culinary Arts Summer Academy "Pizza Party" to learn how to create your own fun!

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

June 28-July 2, 9:00 AM-12:00 PM

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.

@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 28-July 2, 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

Day two: Create batch file; PC tear down and PC component identification

Day three: Introduce networking cables; make networking cable

Day four: Go over new PC parts; build virtual PC; begin PC build; complete PC build and do multi-monitor set-up, if time allows.



Cosmetology (Grades 7-10)

July 6-9

AM Session: 9:00-11:30 AM

PM Session: 12:00-2:30 PM

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 28-July 2, 9:00 AM-12:00 PM

Participants of this academy will learn what it's really like to investigate a crime scene through hands-on activities, role playing and a presentation by a police investigator. Because photography can be a vital part of the criminal trial process, students also will learn the correct procedure and process of crime scene photography. We'll also learn about bloodstain splatter, DNA and how to make a plaster mold and dust for fingerprints.

Culinary Arts: Fun with Sauces - Red Sauce (Grades 7-10)

July 26-30, 8:00 AM -1:00 PM

You can do so much with a simple red sauce. We'll start by making a basic sauce, then learn how it can be used to make enchiladas, pizza, spaghetti, chili and pork BBQ. Yum!

Culinary Arts: Fun with Sauces - White Sauce (Grades 7-10)

July 12-16, 9:00 AM-1:00 PM

You won't believe how many dishes you can cook when you know how to make a white sauce. First, you learn to make the sauce, then you learn how to use it to make macaroni and cheese, white garlic pizza, cheddar and broccoli soup and pasta Alfredo. So good!

Culinary Arts: Pastries and Tarts (Grades 7-10)

July 19,-23, 9:00 AM-1:00 PM

If dessert is your favorite meal, this class is for you. You will learn advanced baking and pastry techniques by creating a wide range of desserts. Participants will get to work with gelatin, fresh fruits, meringue, custards and puff pastry.

Digital Media Arts: Intro to 3-D Design and Printing with Maya (Grades 7-10)

June 28-July 2, 8:00 AM- 12:00 PM

Students will learn the basics of 3-D polygonal modeling using Autodesk Maya during this one-week introductory camp. Projects include 3-D modeling a 1950s style TV, texturing and rendering the TV, and 3-D printing the TV using a MakerBot Replicator+ 3-D printer.



@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! From crocheting to creative writing, to hiking and robotics there is something for everyone! All registrations are being taken online at 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. All safety protocols will be followed for COVID-19. Students attending camps will be required to wear masks and remain socially distant. Further details will be sent via letter to registrants.

Curious Writers (Grades 4-8)

June 28 - July 2, 8:00-11:30 AM

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 from which to draw inspiration. 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. Games and activities will be enjoyed as well. Limit: 12 students

Fee: \$100

Budding Bookmakers (Grades 4-8)

June 28 - July 2, 12:00-3:30 PM

If you have a budding author, then this camp is for him or her! Participants will learn about different types of book making, the history of book binding and the various materials that are used to make paper and books around the world. Students will practice the basic skills of book making and book binding during the course of the week and leave with their very own self-made book. Limit: 12 students

Fee: \$100

The Olympic Dream (Grades 4-8)

July 5-9, 8:00-11:30 AM

Olympic dreams happen in hundredths of seconds. Learn the math and science needed for training and reaching that gold medal. Students will be engaged in hands-on learning to discover how technology not only helps athletes train, but how it's used in determining race results. Limit: 12 students

Fee: \$100



Codes & Secret Messages (Grades 4-8)

July 5-9, 12:00-3:30 PM

Could there really be a secret message on the back of the Declaration of Independence? Would you know how to read it? Discover all the ways that you can create and decode messages. Stump your friends as you create your own ciphers and try to break theirs! Limit: 12 students

Fee: \$100

Magical Math (Grades 4-8)

July 12-16, 8:00-11:30 AM

Join us as we discover the role math plays in every great magician as we explore the secrets math can hold. Become a master magician by using four basic operations to create your own magic tricks! Limit: 12 students

Fee: \$100

Robotics & Engineering (Grades 4-8)

July 12-16, 12:00 -3:30 PM

Students will explore what robotics is all about and learn what robots do and what their limitations are. Different mechanical design elements will be explored and implemented in making robots accomplish different tasks during the week. Participants will create and implement their own designs in order to accomplish tasks. Limit: 12 students

Fee: \$100

Crocheting for Kids! Session I (Grades 5-9)

July 19-23, 8:00-11:30 AM

Get your kiddos fingers busy and not with texting! Girls and boys will enjoy learning simple crochet stitches necessary to complete two projects; a water bottle cozy and key chain lip balm holder. Breaks with short games, walks, music and fun will be threaded through out the session. Students will keep their crochet kit and their two completed projects. Limit: 12 students

Fee: \$100

Beginner Friendly Sewing-Session I (Grades 5-9)

July 19-23, 12:00-3:30 PM

During the Sewing I session, students will learn valuable basic sewing skills which include hand stitches and machine sewing, measuring, marking and cutting material, as well as how to iron projects. Students will enjoy sewing their very own cute little monster and a clutch sewing case to keep. Class limit: 12 students

Fee: \$120



Beginner Friendly Sewing-Session II (Grades 5-9)

July 26-30, 8:00-11:30 AM

Students will utilize the skills learned in Sewing Session I to design and create a simple 5'x4' quilt. Students will learn how to layout, cut, piece together and tie their quilts. In the fall, students will love wrapping up and staying toasty warm in their handmade quilt. Students who own a sewing machine are encouraged to bring it to camp. A list of fabric to purchase prior to camp will be provided. Pre-requisite: Beginner Friendly Sewing-Session I. Limit: 12 students

Fee: \$100

Keep on Crocheting – Session II (Grades 5-9)

July 26-30, 12:00-3:30 PM

Take your skills to the next level with seasoned crochet maker Beth Grant, owner of hook_line_crocheted. Students will learn more complex crochet stitchers in order to complete two projects: a hat with pom and scarf. Breaks with short games, walks, music and fun will be threaded throughout the session. Students will keep their crochet kit which includes extra yarn and needle. As weather cools, students will take pride wearing their own handmade hat and scarf! Pre-requisite: Crocheting for Kids! Limit: 12 students

Fee: \$100

The Art of Paper Bead Making (Grades 4-8)

August 2-6, 8:00 -11:30 AM

Students will learn how to make paper beads using cereal boxes and other materials. Using their hand-made beads, students will create jewelry, bookmarks and other crafts. Time will be spent exploring the interesting history of paper beads and the future of them. Students will learn about an initiative in Haiti to help families stay together by learning how to make paper beads, jewelry and other products. Limit: 12 students

Fee: \$100

Young Poets Society (Grades 4-8)

August 2-6, 12:00-3:30 PM

A perfect camp for your budding poet! Young poets will spend the week drawing inspiration from a variety of activities, including meditative free writing, group writing, open mic readings and nature walks. Students will work collaboratively to create and produce a book of poetry composed of the poems from our work together and each will receive a copy. The Young Poets Society is a fun way to keep your kids writing creatively this summer! Limit: 12 students

Fee: \$100



Sweet Feet Hiking (Grades 5-9)

August 2-6, 8:00 AM-3:30 PM

Each day will feature a field trip to a great hiking destination in the Finger Lakes region coupled with a snack stop afterward for ice cream to area sweet shoppes! Campers will be bused from Notre Dame by hiking enthusiast and NYS certified bus driver Jessica Ryan. ND Art Teacher Sue LaVelle will guide campers along the hiking paths to capture nature/landscape photos. Participants also will learn some cool geology as they hike through gorges and waterfalls. At the end of the week, each camper will have a collection of stunning photographs, a fix of ice cream and a hiking high! Campers should bring a small day pack to carry a packed lunch, snacks, sunscreen, bug spray, water bottle and a camera (or cell phone camera). Campers must wear sensible hiking footwear such as hiking boots or sturdy shoes/sneakers (no flip flops or Crocs). Camp limit is 11 students.

Fee: \$225 (covers cost of ice cream)

Sweet Feet Hiking - Session 2 (Grades 5-9)

August 16-20, 8:00 AM-3:30 PM

Each day will feature a field trip to a great hiking destination in the Finger Lakes region coupled with a snack stop afterward for ice cream at area sweet shops! Campers will be bused from Notre Dame by hiking enthusiast and NYS certified bus driver Jessica Ryan. Mrs. Ryan will guide campers along the hiking paths to capture nature/landscape photos. Participants will also learn some cool geology as they hike through gorges and waterfalls. At the end of the week, each camper will have a collection of stunning photographs, a fix of ice cream and a hiking high! Campers should bring a small day pack to carry a packed lunch, snacks, sunscreen, bug spray, water bottle and a camera (or cell phone camera). Campers must wear sensible hiking footwear such as hiking boots or sturdy shoes/sneakers (no flip flops or Crocs). Camp limit is 12 students. This is a full day camp.

Fee: \$225 (covers cost of ice cream)

Children's Literature Live (Grades 4-8)

August 9-13, 8:00-11:30 AM

Calling all young actors/actresses! Students will work collaborative to select two favorite children's stories and add their own twists. During the course of the week, children will read and write the script, create simple costumes, props and scenery. Students will bring the tales to life on stage at the end of the week. Limit: 12 students

Fee: \$100

Comic Creations Camp (Grades 4-8)

August 9-13, 12:00-3:30 PM

Does your young reader LOVE graphic novels? They are not alone. Join with other fans to learn about the origin and history of graphic novels and explore graphic novels from other cultures. Students will curate their own graphic novel using either their own drawings and paintings or by using computers or other tools to help them illustrate the graphics for their story line. Limit: 12 students

Fee: \$100



Science & Discovery Center

- Please, go to 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 updates to all SDC programs and happenings.

Photography in History (Grades 4-7)

June 28-July 2, 8:30 AM -12:30 PM

Location: Heritage Village, Corning

Have fun with photography while learning a little bit about local history at the historic Heritage Village in Corning. You'll make a simple working pinhole camera and do darkroom developing, and we'll take cool photos that look like ancient history. We'll also use digital cameras and experiment with modern photo editing. If you like photography, you will have a ball! No experience with photography is necessary.

Junior Adventures in Art (Grades 1-3)

July 6-9, 8:30-11:30 AM (No camp on Monday, July 5)

Location: First Tee-Corning Indoor Golf & Sports Training Center (at the Arnot Mall)

Create works of art while secretly using math and science. Painting, drawing, sculpting, crafting and more. We will be creative and scientific, while getting a little messy and having lots of fun creating original works of art!

Space & Rocketry (Grades 4-7)

July 12-16, 8:30 AM- 12:30 PM

Location: First Tee-Corning Indoor Golf & Sports Training Center (at the Arnot Mall)

It's everything space! Learn about the Apollo moon landing, build and paint rockets throughout the week, then launch them outside. You will make a 3-D model of a constellation and a computer model of the Solar System where the planets orbit correctly. We'll play Space Jeopardy.

Junior Explorers (Grades 1-3)

August 2-6, 8:30-11:30 AM

Location: Spencer Crest Nature Center

Get outside and explore the world of plants, animals and minerals. Hike trails of the Spencer Crest Nature Center and discover the creatures that help the forests grow, learn how animals protect themselves from the sun, and explore how trees get water all the way up to the highest leaves!



Wings & Wheels (Grades 4-7)

August 9-13, 8:30 AM -12:30 PM

Location: First Tee-Corning Indoor Golf & Sports Training Center (inside the Arnot Mall)

Build things that go - with wings or wheels! We will make gliders and cars that are powered by different kinds of energy. We will have a few races and you'll get to keep everything you make.

Adventures in Art (Grades 4-7)

August 16-20, 8:30 AM -12:30 PM

Location: First Tee-Corning Indoor Golf & Sports Training Center (inside the Arnot Mall)

Create works of art while using science. Learn how to draw in "perspective" (3-D). Paint using different techniques and medias throughout the week. Make origami, friendship bracelets, clay sculptures and more!

Stop-Motion Animation (Grades 4-7)

August 23-27, 8:30 AM -12:30 PM

Location: First Tee-Corning Indoor Golf & Sports Training Center (inside the Arnot Mall)

Learn how to do "stop-motion animation" on a computer: objects and people will be moved frame-by-frame creating the illusion of movement. You will save all of the video clips that you make on a DVD to take home. In our movies, we'll get creative with animating lots of different objects, including toys, pictures and people.

@Tanglewood Nature Center

443 Coleman Avenue, Elmira

Pricing and Hours:

- **Regular Day 10 AM-3 PM - \$185**
- **Extended Day 9 AM-4 PM - \$235**
- **Extended Day 8 AM-5 PM - \$285**
- **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. For more information, contact Deanna at (607) 732-6060 ext.100.



Fishing (Grades K-2) and Eco Engineers (Grades 3-5)

June 28- July 1 (no camp on Friday)

- Basics of fishing, including casting, knot tying, safety and more
- Dig bait for different species of fish and make your very own pole
- Design and build as we look to nature for inspiration
- Create and play with simple machines, such as seed bomb launchers
- This camp is ideal for beginning and expert fishers, as well as those who like to create from the nature around them.

Dino Dig (Grades K-2) and Zookeepers (Grades 3-5)

July 5-9

- Explore the woods to find your very own fossils
- Get up close and personal with the dinosaur descendants that live here at Tanglewood
- Hike through the woods to see wild animals in their natural habitat
- Discover the tricks of training animals with positive reinforcement – working with animals including mammals, birds and more
- This camp is ideal for any dinosaur, animal or nature lover!

Pokémon (Grades K-2/Grades 3-5)

July 12-16

- Discover Pokémon that are based on real animals, many of which reside at the museum!
- Hike the trails and catch insects and frogs with your very own Pokéball
- Make up your own Pokémon and battle them against other trainers
- This camp is ideal for aspiring Pokémon trainers and professors!

Scales & Slime (Grades K-2) and Wilderness Survival (Grades 3-5)

July 19-23

- Flip over logs to find sneaky salamanders and get your feet wet catching frogs and fish in the ponds
- Learn to read a map and use a compass to find your way home
- Build and insulate an individual shelter with no tools
- End the week with a reptile race
- This camp is ideal for campers who love being in and learning about nature and don't mind getting a bit muddy and messy.

Critter Care (Grades K-2) and Forest Forensics (Grades 3-5)

July 26-30

- Play games in the woods using your senses
- Find fossils and rearrange owl pellet bones to piece together mysteries of the past
- Explore the creek to find camouflaged creatures and hidden secrets in the soil
- Hike through the woods to see wild animals in their natural habitat
- This camp is ideal for kids who love animals, are inquisitive about nature and enjoy being out in nature.



Camp Yucky (Grades K-2) and Wilderness Quest (Grades 3-5)

August 9-13

- Explore the muddy, slimy, oozy and sometimes yucky side of science
- Hunt for treasure and map your way across 300 acres, marking special items you discover
- Create dishes and elixirs out of natural ingredients
- Learn about creepy crawly insects and what lives in the muck at the bottom of the pond
- This camp is ideal for kids who don't mind getting a little messy and are ready for hands-on nature adventures!

Pokémon (Grades K-2) and Swamp Stomp (Grades 3-5)

August 16-20

- Discover Pokémon that are based on real animals, many of which reside at the museum
- Hike the trails and catch insects and frogs with your very own Pokéball
- Make up your own Pokémon and battle them against other trainers
- This camp is ideal for aspiring Pokémon trainers and professors
- Explore ponds and pools and see who or what might be hiding just under the surface – salamanders, frogs and more!
- Make your own water filter while learning how the earth purifies water
- This camp is ideal for kids who love animals, want to understand them better and don't mind getting a bit messy!

Go Wild! (Grades K-5)

August 23-27

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

Forts and Forests (Grades K-5)

August 30- September 2 (no camp on Friday)

- A week full of fun in the woods
- Go on a wilderness adventure and build a fort in the woods
- Play in the woods and explore 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!



@Wings of Eagles Discovery Center

339 Daniel Zenker Drive, Big Flats

Wings of Eagles Discovery Center courses are \$80 per child for a half-day course and \$175 for a full day course. Virtual courses are \$50 and take home kits are also \$30. A limited number of scholarships are available for children who qualify. Please call 607-738-3054 for more information. To register for courses at the Wings of Eagles, please go to www.wingsofeagles.com.

Maker Space (PreK)

July 26- 30 9:00 AM-3:00 PM @Wings of Eagles

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.

Maker Space Tot (Grades K-2)

July 19-23 9:00 AM-3:00 PM @Wings of Eagles

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! We also offer take home kit offers for independent learning.

Maker Space Tot 2 (Grades K-2)

August 2-6, 9:00 AM-3:00 PM @Wings of Eagles

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.

Mars Base Eagle (Grades 4-8)

Virtual class, August 2-6, 9:30 AM

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. Learners can join our virtual season via zoom, using a packet of take home materials provided. Students will have a family pass to visit our colony during regular business hours. We also offer take home kit offers for independent learning.

Building Construction 1 and 2 (Grades 4-8)

Construction 1: July 12-16, 9:00 AM-3:00 PM @Wings of Eagles

Construction 2: July 26-30, 9:00 AM-3:00 PM @Wings of Eagles

Maker Space: The goal of Maker Space 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. We will be constructing projects that could include yard games such as corn hole and Yahtzee! If you joined us last year, come again and make something brand new.



Aviation (Grades 4-8)

August 9-13, 12:30-3:00 PM

Virtual class: July 12-16, 9:30 AM

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 upgrade virtual reality experience is heart stopping fun and excitement. This non-stop action is great for students who love video games and science. Virtual students will have a family pass to visit our museum during regular business hours. We also offer take home kit offers for independent learning.

NXT Mindstorm Robotics (Grades 3-8)

July 12-16, 9:00 AM-3:00 PM

Do you love the Disney/Pixar movie WALL-E? Do you like to build things using LEGOs? Have you ever thought about programming your own robot? If you answer yes to these questions our LEGO Robotics course is for you! This introductory course introduces students to the basics of NXT LEGO Robotics. Students will work in teams to design, build and program their own robots. Students will be involved with programming their robots through several challenges.

Rocketry (Grades 4-8)

August 9-13, 9:00-11:30 AM

Rockets are the oldest form of self-contained vehicles in existence. Early rockets were in use more than two thousand years ago. During a long and exciting history, rockets have evolved from simple tubes filled with black powder into mighty vehicles capable of launching a spacecraft out into the galaxy. Few experiences can compare with the excitement and thrill of watching a rocket-powered vehicle, such as the Space Shuttle, thunder into space. Dreams of rocket flight to distant worlds fire the imagination of both children and adults. Come to Wings of Eagles and learn the science behind rockets. Be ready to build and fly your very own rocket. We also offer take home kit offers for independent learning.

Forensics Online (Grades 3-8)

Virtual Class: July 26-30, 9:30 AM

Explore a real murder that happened back in the 1800s. This case is a virtual reality model and will be completed on the computer. Students will be immersed in this online learning opportunity with help from a zoom instructor. We have two options this year - murder at the old fields or Diablo Highway.

EV3 Mindstorms (Grades 4-8)

July 19-23, 9:00 AM-3:00 PM

Come and experience the newest addition to the LEGO team of robots. This newer system allows students to engineer and design brand new builds and increase their programming skills. If they like NXT, they will love EV3.

Forensics (Grades 3-8)

August 9-13, 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.



Fast and Furious Engines (Grades 3-8)

August 2-6, 12:30-3:00 PM

Learn science and math while building small engines. Have you ever wondered why those fast and furious cars move so fast? This hands-on camp will teach you not only the parts of the engine, but how fuel is burned and what makes everyday diesel and gas equipment run.

SNAP! (Grades 3-8)

August 2-6, 9:00-11:30 AM

Virtual Class: August 9-13, 9:30 AM

SNAP! is a visual, drag-and-drop programming language. The user can create new and exciting computer programming modules. This class is a great introduction to programming and as the ability to be fun and exciting for students who are also experienced in computer programming.

Fun with Science (Grades 3-8)

Virtual Class: July 19-23, 9:30 AM

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. We also offer take home kit offers for independent learning.

Program Bridge

Our lunch time from 11:30 AM-12:30 PM program offers students a chance to sign up for a morning and afternoon class in their age range and stay with us for programming at the museum all day. For an additional \$25 students pack their lunch and get to experience hands-on activities and science demos until the next class starts. This program bridge would work for classes scheduled the week of August 3 and August 9.