

Summer of Innovation 2019

Course Guide



Sponsored by:

Science & Discovery Center 



Notre Dame
HIGH SCHOOL
Grades 7 - 12



CORNING



WINGS of EAGLES
DISCOVERY CENTER
www.wingsofeagles.com





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:

- Career Development Council
- Corning Community College
- The First Tee Corning – www.thefirstteecorning.org
- GST BOCES – www.gstboces.org
- MST Connect
- Notre Dame High School – www.notredamehighschool.com
- The 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.

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



Career Development Council

459 Philo Road, Elmira

Youth Leadership Institute (Grades 10-12)

@BOCES Bush Campus and Corning Community College

June 26-28 and July 1-2, 9:00 AM-3:00 PM

This five-day summer leadership institute is for rising sophomores, juniors and seniors. It is designed to give students with leadership potential the opportunity to acquire the skills needed to be a successful leader, gain a network of peers from other schools in the region, build an understanding of their place in the larger society and learn the importance of community service. The program includes opportunities to learn from local community leaders.

Active, daily sessions focus on strengths-based leadership development, including a day of adventure based learning, plus the opportunity to develop and deliver a public speaking presentation to community leaders.

"[YLI] helped me learn to be not only a leader, but a good leader. Helped me figure out my strengths and who I am." Corning-Painted Post High School participant

"You learn great skills and become closer to knowing who you are." Addison High School participant

"It is a great opportunity for strangers to become friends and leaders." Watkins Glen High School participant

The program is coordinated through Career Development Council and available to students in participating districts including Addison, Bath, Bradford, Corning, Horseheads, Odessa-Montour, Spencer-Van Etten, Waverly and Watkins Glen. Space is limited.

Interested in applying? See your school counselor to inquire about a YLI (Youth Leadership Institute) application or call Career Development Council at 607-795-5320 for more information.

@Corning Community College

1 Academic Drive, Corning

Full STEAHM Ahead Summer Workshop (Girls grades 7-8)

@CCC Commons Building

August 5-9, 8 AM-4 PM

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 30 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; design their own T-shirts; learn to meditate and practice yoga for stress release; develop an engineering project that they can wear home and lots more. Participants also will hear from and interact with women working locally in STEM careers and college students in STEM programs to inspire their own career and college plans. Transportation to CCC is available.

Cost: \$100, scholarships available

To register, email jseller2@corning-cc.edu

@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 8-12 or July 29-August 2, 8 AM-12 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 27-28 & July 1-3, 9 AM-1 PM

Have you ever seen a custom paint job on a car, truck, motorcycle or bicycle and wondered how to do it? In this five-day camp you will learn custom paint basics such as airbrushing, hydro graphics and hand pinstriping. You will learn how to design custom stencils and vinyl graphics on a computer and then utilize a vinyl plotter to cut them out. Then you'll have the opportunity to build, paint and customize a model car along with other projects and specialty paint techniques including flames, wood grain, carbon fiber, diamond plate and brushed aluminum.

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

June 27-28 & July 1-2, 9 AM-3 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 build a V/C Racer.

Conservation: The Outdoor Classroom (Grades 7-10)

July 1-5 (no class on July 4), July 8-12 or July 22-26; 8 AM-12 PM

If you're the outdoorsy, active type, this academy is for you! Throughout the week, you'll spend time in the great outdoors hiking, exploring and learning to identify animals, insects, trees, plants and soils. We will look at pond life and how that impacts nature. You'll construct wildlife projects to take home, as well as enjoy time fishing in one of our many ponds



Cosmetology: Cosmolicious 101 (Grades 7-10)

July 1-5 (no class on July 4)

1st session – 9-11:30 AM

2nd session – 12-2:30 PM

Do you enjoy making people feel better about themselves? Come to the GST BOCES Cosmetology Summer Academy at the Bush 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.

Criminal Justice: Police, Fire and 911 Dispatcher Academy (Grades 7-10)

July 29-August 2, 9 AM-2 PM

Want to experience a day in the life of a police officer, firefighter or 911 dispatcher? Students will learn some of the critical thinking and hands-on skills required to succeed in the criminal justice career field. They will learn how to use a portable radio, answer mock emergency calls for service, conduct vehicle approaches, search for missing people, direct traffic, help out at a mock car accident, calm people down, and practice how use a fire extinguisher. They will work together as a team to respond to a mock emergency call and solve the problems they encounter. They also will take a field trip to a local police department and participate in a career panel of actual police/fire/EMS/private security/911 dispatchers.

Criminal Justice: Crime Scene Investigation (Grades 7-10)

August 5-9, 9 AM-12 PM

Are you ready to solve a mystery? This one-week academy starts with an escape room-style challenge to introduce students to deductive reasoning, basic CSI skills such as fingerprinting and teamwork. On Day 2 we will stage a mock crime scene and students will have the rest of the week to solve the case. They will interview the witnesses, collect and analyze the evidence, dust for fingerprints, cast the footprints, learn about hair and fiber analysis and ballistics, reconstruct the timeline of events, search the suspects' cars and offices, and (hopefully) make the right arrest!

Woodworking/Mass Production: From Forest to Factory (Grades 7-10)

June 27-July 3, 8 AM-12 PM

If you like working with wood, this course is for you! You'll learn how lumber is processed from forest to stock as well as how to plan, layout, measure, cut, assemble and finish your own woodworking project. In addition, you'll learn how to safely and properly handle all sorts of power equipment. The week will close with a field trip to a local sawmill.

@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: Intro to Automotive Collision & Refinishing Technology (Grades 7-10)

June 27-28 & July 1-3, 9 AM-1 PM

The collision repair industry is evolving at a rate faster than ever before. The technological advancements have changed the way we view the industry. This change is paving the way for the next generation of technicians to be able to work on the rolling computers that we are driving today. The collision repair industry is projected to surpass \$150 billion by the year 2022. Get a jump start on your career by learning some of the basics of collision repair. In this five-day camp you will learn dent repair, MIG/MAG welding, plastic repair and refinishing.

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

June 27-28 & July 1-3, 9 AM-1 PM

Our campers will experience a number of competitive events, including a pit road challenge. Students will learn about auto lifts and how to rotate tires. During a timed event, students will use air tools and learn to properly install and torque wheels. Students also will learn about tire machines and will compete against their peers for the fastest times. We will be building valve cover racers that students will race for the fastest time. Finally, we will visit Woodhull raceway, where we will get to check out the track and look at actual race cars. This will be the only day that campers will be served lunch.

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

June 27-28 & July 1-3, 8:00 AM-12 PM

If you love art, this class is for you! You'll practice computer graphics (Adobe Photoshop), photography, video and vinyl graphics. You will create photo composites such as a "Hybrid/New Animal" using two different images, a vinyl transfer for a T-shirt and a photo cup. You also will put yourself into another world using a green screen effect. Please bring a brown-bag lunch each day.

@GST BOCES Wildwood Education Center

1126 Bald Hill Road, Hornell

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

Criminal Justice: CSI (Grades 7-10)

July 15-19, 9 AM-12 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: Cupcakes! (Grades 7-10)

July 8-12, 9 AM-1 PM

Students will learn basic cooking skills while they make all kinds of cupcakes. Then, they'll learn some basic cake decorating skills, including how to make buttercream frosting, frost a cupcake, use basic cake decorating tools and work with fondant. They'll make animals, Minions and cheeseburgers out of cupcakes, then try creating their own design.

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

July 15-18, 9 AM-1 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. Yum!

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

August 6-9, 9 AM-12 PM

If you can't resist freshly baked bread, why not learn to make your own? We'll make and eat several types of bread and learn the basics of baking, kitchen safety and sanitation in the process.

Digital Media Arts: Intro to Basic 2-D and 3-D Design (Grades 7-10)

June 24-28, 8 AM-12 PM

Students will spend the first two days learning the basics of vector design for print in Adobe Illustrator. The students will complete a sticker design project and print stickers to take home. They also will design and print their own custom T-shirt. The last three days of the academy will be dedicated to an intro to 3-D design in Autodesk Maya. Students will design and print a basic 3-D object using the MakerBot 3-D printer.

@Notre Dame High School

1400 Maple Avenue, Elmira

All academies at Notre Dame are \$100 per child, per academy unless otherwise stated. Registration fees are non-refundable and must be paid at the time of registration. Please note: "Grade" is the grade level that the student will be entering in the fall of 2019. For more information or to register, go to: www.notredamehighschool.com and click on Summer Camps under "Quick Links". Students who sign up for a morning and afternoon session during the same week are invited to pack a brown-bag lunch and may eat in the cafeteria in between sessions.

Youth Theatre Workshop (Grades 4-7)

July 8-12, 8-11:30 AM

Students will go behind the scenes and explore all of the aspects that go into a theatre production, including acting, directing, costume design, lighting, set design and construction, sound and more. This week-long workshop will conclude with a performance for friends and family to attend.

Cost: \$100



Exploratory Band Extravaganza (Grades 4-7)

July 8-12, 12-3:30 PM

Explore the physics, acoustics and sounds of band instruments. Students get to learn about and play all of the standard band instruments, culminating in a recital for friends and family to attend. No experience on an instrument is required. This is a fantastic opportunity for those interested in joining band or exploring a new instrument.

Cost: \$100

Color Your World (Grades 5-8)

July 15-19, 8-11:30 AM

Join us for this colorful week-long art expedition. Students will explore the world of painting with experiments in watercolor, acrylic and fabric painting. Artists will learn about color theory and create artwork using a variety of methods, mediums and techniques unique to painting. The students will prepare for and end the week with an exhibition of their masterpieces for family and friends to enjoy.

Cost: \$100

The Art of Photography (Grades 5-8)

July 15-19, 12-3:30 PM

Come have fun exploring your creative potential with a camera. Students will learn the basics of photography including lighting, framing and composition. We will discuss and work in various photography genres, including but not limited to landscape, portraits and abstraction. Additionally, students will experiment with additional art materials to create mixed media pieces. No prior photography knowledge required. The week will culminate in an exhibition on Friday to show off student work.

Cost: \$100

Sweet Feet (Grades 6-9)

July 22-26, 8 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 afterwards for ice cream at area sweet shops. Campers will be bused from Notre Dame by avid hiking enthusiast and NYS certified bus driver Mrs. Jessica Ryan, along with ND Art Teacher Mrs. Sue LaVelle, who will guide campers along the hiking paths to capture nature and 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, plenty of ice cream and a hiking high. Campers should bring daily a small day-pack or back-pack to carry a packed lunch, sunscreen and 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 space is limited to 12 students.

Cost: \$200

Strum & Drum Extravaganza! (Grades 3-6)

July 29-August 2, 8-11:30 AM

Explore the science and sounds behind instruments such as the ukulele, guitar and multiple drums. No prior experience with note reading or rhythmic counting required. Students will learn the basics of performing on each of these instruments. The students will prepare through out the week for a grand finale performance for family and friends to attend.

Cost: \$100



Rock Band Camp (Grades 4-7)

July 29-August 2, 12-3:30 PM

Experience on an instrument preferred but not required. In this week long workshop, collaborate with your peers and form your own rock band. We will review the basics of common “rock” instruments such as guitar, bass, drums, piano and voice, and learn covers of standard rock songs. Rock out for your family and friends at the end of the week.

Cost: \$100

What’s Cooking? (Grades 6-12)

August 5-9, 8-11:30 AM

Students will be working cooperatively to produce five days of complete meals on different themes such as Italian Day or Breakfast Day. Emphasis will be placed on proper measurement, timing and following detailed instructions to produce tasty meals meant to be shared. If you are a veteran of this camp, never fear, all the meals prepared will be new. On our last day, the junior chefs will be asked to bring in one of their favorite recipes to share, create and enjoy with invited guests as a finale.

Cost: \$100

La Cocina Hispana! (Grades 6-12)

August 5-9, 12-3:30 PM

Students will take a culinary tour of five Spanish-speaking countries, utilizing cooking skills and techniques in measurement, timing and taste. The students will work collaboratively to recreate cultural delicacies and expand their familiarity with cooking, baking and creating meals. The week will culminate in a tasting event for parents and guardians.

Cost: \$100

Special Effects Makeup Camp (Grades 4-8)

August 12-16, 12-3:30 PM

Students will spend their week learning what goes on behind the scenes to create a cast of characters in a show. Students will learn basic special effect makeup techniques to help them become a monster or anything they desire. Each day will be spent focusing on a different genre. Some of the topics covered during the week will include monster and zombie makeup, paint for illusion and fake blood.

Cost: \$100

Science & Discovery Center



- To register please visit our website, www.sciencediscoverycenter.org. Registration is done on a first-come, first-served basis.
- Walk-in Registrations are being taken at our Education Office, 55 Ferris St., Corning, NY, 14830 on the following dates and times:
 - May 7, 9 AM-6 PM
 - May 11, 9 AM-1 PM
 - June 6, 9 AM-6 PM
 - June 8, 9 AM-1 PM
- Financial assistance is available for eligible families. A limited number of scholarship applications are available online.
- “Grade” refers to the grade your child will be entering in September 2019.
- No refunds will be given. Dates, times, location, and cost of camps vary. Please check all information prior to registration. If you have questions, please call (607) 973-2918.

Jr. Science Explorers (Grades 1-2)

@Spencer Crest Nature Center

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

ALL NEW ACTIVITIES! Explore something new every day! This year, camp focuses on being “green” and eco-friendly. Learn what makes plants grow best, plant your own seeds in recycled containers, make biodegradable plastic and paper from scraps. Hiking and nature walks will be a daily adventure.

Cost \$75

Race Camp (Grades 3-5)

@Clute Park, Watkins Glen

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

Build and race model cars! Learn how to build lots of model racers – an air-powered racer, a mousetrap-powered racer, a CO₂-powered racer and others! We will use soda bottles, foam board, hot glue and everything we can to make racers you can take home. This camp is sponsored by Watkins Glen International RACE Foundation.

Cost \$50

Science Explorers (Grades 3-5)

@Spencer Crest Nature Center

July 15-19, 8:30 AM-12:30 PM

NEW ACTIVITIES! Explore a different science topic each day at this activity-packed camp. We will look at the science of nature, make chemical reactions happen, build engineering projects, make electrical circuits, use math to construct cool paper gadgets, take nature hikes and play outdoor games.

Cost \$100



Game Designer (Grades 4-6)

@Spencer Crest Nature Center

July 22-16, 8:30 AM-12:30 PM

Do you like to play board and card games? Spend the week learning how to design and build your own indoor and outdoor games. Have fun trying out games and take home what you create!

Cost \$100

Chemistry (Grades 5-7)

@Spencer Crest Nature Center

July 29-August 2, 8:30 AM-12:30 PM

What do slime, glow sticks and batteries all have in common? They demonstrate chemistry in action! Join us as we experiment with chemical reactions that will make things change color, fizz, appear or disappear before your very eyes!

Cost \$100

Ken Keith Engineering (Grades 4-7)

@Arnot Mall

August 5-9, 8:30 AM-12:30 PM

Build and take home engineering structures such as bridges and domes and see what the engineering process is like! What kind of shapes are important for engineering? Are the materials you use as important as how you put them together? If you like building, sign up!

Cost \$100

Intro to Cooking (Grades 3-4)

@Corning Painted Post Middle School

8:30 AM-12:30 PM

Welcome to basic cooking! The week will focus on learning the necessary skills to cook, including knife safety and proper measuring, all while making delicious recipes that are easy to make at home!

Cost \$125

Cooking (Grades 5-8)

@Corning Painted Post Middle School

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

Prepare and taste recipes for a different snack, meal or dessert each day. Learn to follow a recipe, 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! Spend a day cooking with a professional chef from Wegmans.

Cost: \$125

@Tanglewood Nature Center

443 Coleman Avenue, Elmira



Pricing and Hours:

- Regular Day – 10 AM-3 PM, \$175
- Extended Day – 9 AM-4 PM, \$225
- Extended Day – 8 AM-5 PM, \$275

More options available online

Registration:

Registration is done 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.

No camp during the holiday week (July 1-5).

Fishing Camp (Grades K-2)

July 8-12

- Learn the basics of fishing including casting, knot tying, safety and more.
- Practice casting and perfect your fly-tying.
- Dig bait for different species of fish and make your very own pole.
- Watch a pro show you how to gut, fillet and clean a fish and take home recipes for future fishing!

Wilderness Survival Camp (Grades 3-5)

July 8-12

- We start off easy with map and compass reading, but by the end of the week, students will be able to read a tree to find south.
- Build and insulate a shelter with no tools.
- Learn where to find edible plants while tracking and catching (and releasing) wildlife with our own homemade traps.
- Finish the week with fire building and preparing a special treat in the woods!

Magical Beasts (Grades K-2)

July 15-19

- Discover all the different magical creatures in habitats such as the pond, the sky and the woods, including mermaids, fairies, gnomes, unicorns and Bigfoot.
- Design a chimera that mixes up your favorite adaptations including wings, special powers, talons or webbed feet
- Learn about the natural world that mimics magic – why bogs glow in the dark, the science of fairy rings and more.
- Build a gnome home and imagine how magical creatures coexist with humans.



Critter Care Camp (Grades 3-5)

July 15-19

- Snuggle a ferret, feed a frog and help Tanglewood staff care for more than 40 different animals.
- Practice some of the first aid and healthcare techniques we use to keep our animal ambassadors healthy.
- Create toys and treats for animals to enjoy.
- Discover the tricks of training animals with positive reinforcement, working with species including dogs, birds and more!

Nature Play (Grades K-2)

July 22-26

- Go home laughing and grass-stained after a day of playing games, including the classics and brand new games unique to Tanglewood.
- Sculpt mud pies, make fossil prints and play park rangers.
- Create works of art with natural items found in the woods.
- Tag, kickball and forts galore!

Pioneers to iPads (Grades 3-5)

July 22-26

- From ancient hieroglyphs to iPads, play around with science and technology!
- Take tech into the woods using apps on our iPads to take real data for NASA and Cornell's Lab of Ornithology!
- Construct, create and play with simple machines such as seed bomb launchers and solar-powered cars.

Scales & Tails (Grades K-2)

July 29-August 2

- Flip over logs to find sneaky salamanders and get your feet wet catching frogs and fish in the ponds.
- Shed your own skin with a funky craft and unravel the color-changing mysteries of chameleons and bearded dragons.
- Create a life-size masterpiece of our biggest animal – “Bowie” the Colombian red-tail boa
- End the week with a reptile race!

Outdoorsman (Grades 3-5)

July 29-August 2

- Try on and learn how to pack for a wilderness backpacking adventure.
- Set up and break down tents for a home base in the woods – and relax in a hammock in between the trees!
- Follow tracks and signs to stalk down wildlife and set snares and traps to (safely!) catch and release critters
- Practice hiking and outdoor safety and learn how to survive on your own

Zookeepers Camp (Grades K-2)

August 5-9

- Dissect owl pellets and rebuild the skeletons of their prey.
- Roll logs and pull them apart to discover decomposers.
- Feed our animals gourmet meals of fruit, rats, bugs and build jungle gyms and toys for our animals.
- Personally meet each major animal group and care for our critters from tooth to toe!



Mad Scientists (Grades 3-5)

August 5-9

- Fit inside a giant bubble!
- Defy gravity with water in wacky experiments.
- Write and decode secret messages using invisible ink made from plants.
- Explode, grow, disappear and slime all kinds of things with experiments.

Mad Scientists (Grades K-2)

August 12-16

- Fit inside a giant bubble!
- Defy gravity with water in wacky experiments.
- Write and decode secret messages using invisible ink made from plants.
- Explode, grow, disappear and slime all kinds of things with experiments.

Wilderness Quest (Grades 3-5)

August 12-16

- Hunt for treasure and map your way across 300 acres, marking special items you discover.
- Face down challenges as a team and conquer an obstacle course.
- Create dishes and elixirs out of natural ingredients.
- Solve puzzles as you quest through the museum.

Pokémon (Grades K-5)

August 19-23

- 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.
- Complete the outdoor field day trials to earn your trainer certificate!

Outdoor Adventure (Grades K-5)

August 26-30

- Escape a larger-than-life spider web unscathed with your team.
- Build the ultimate “eggstra invincible” parachute to protect an egg passenger.
- Channel your inner adventurer and build a fort in the woods, spending glorious days in the wild.
- Create toys and enrichment for the animals – interspecies play!

@Wings of Eagles Discovery Center

339 Daniel Zenker Drive, Big Flats



Wings of Eagles Discovery Center courses are \$70 per child for a half-day course, \$140 for a full day course and \$25 for the story hour. 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.

STEM Story Hour (Age 2)

@Wings of Eagles

July 8-12 or July 15-19, 10-11 AM

Immerse your toddler into a world of STEM (science, technology, engineering and math) for an hour a day. Your toddler will be part of a story hour that includes a hands-on activity with parent, directly correlated to STEM standards for kindergarten. Parents need to be with their toddler during the experience.

Maker Space (Pre-K)

@Wings of Eagles

July 15-19, 9-11:30 AM

This class is designed for our 3-4 year old learners and will be offered as a half-day programing. Students in this pre-k 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)

@Wings of Eagles

July 8-12, 9 AM-3 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!

Maker Space Tot 2 (Grades K-2)

@Wings of Eagles

August 5-9, 9 AM-3 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.

Marvelous Machines (Grades 3-4)

@Wings of Eagles

July 29-August 2, 9 AM-3 PM

Did you know that you were born an engineer? Do you like to build things, take them apart and figure out how they work? This program gives you a chance to design, create and improve the things that you engineer. This program is designed by the Boston Museum of Science and includes many hands-on experiments and activities. Such fun!



Maker Space (Grades 3-4)

@Wings of Eagles

July 22-26, 9 AM-3 PM

Makers of all ages who love DIY, creating, crafting, hacking, tinkering and learning are invited to join us for this all day, all week maker space camp.

Mars Base Eagle (Grades 4-8)

@Wings of Eagles

July 22-26, 9 AM-3 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. Students will have access to both of the escape rooms on site, along with exploration of our entire new mars habitat.

Building Construction Maker Space (Grades 4-8)

@Wings of Eagles

July 8-12, 9 AM-3 PM

The goal of our 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.

Aviation (Grades 4-8)

@Wings of Eagles

July 15-19, 12:30-3 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. This non-stop action is great for students who love video games and science.

NXT Mindstorm Robotics (Grades 4-8)

@Wings of Eagles

July 8-12, 12:30-3 PM

July 15-19, 9 AM-3 PM (This is an advanced class – MUST have completed a program either at Wings of Eagles or in your school)

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)

@Wings of Eagles

July 15-19, 9-11:30 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.

Forensics Online (Grades 4-8)

@Wings of Eagles

July 29-August 2, 9-11:30 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 for half the day. Students will have access to their account for the whole week and can even explore it at home!

EV3 Mindstorms (Grades 4-8)

@Wings of Eagles

August 5-9, 9: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 4-8)

@Wings of Eagles

August 5-9, 9 AM-3 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.

Underwater Robotics (Grades 5-12)

@Eldridge Park

July 8-12, 9 AM-3 PM

M, T, ½ day W, OR ½ day W, T, F. Each section is 2½ day long. You only need to sign up for one section.

Do you like to build robots? Have you ever seen a ROV (Remotely Operated Vehicle)? Learn how to build an ROV and then see how it works underwater. ROV's are usually used for ocean exploration and research as well as being used by the gas industry for oil and gas drilling and support. ROVs are unoccupied vehicles that can explore a variety of locations in the water and are piloted by someone on shore or on a boat. Some are even used for crime scene investigation.



SNAP! (Grades 5-12)

@Wings of Eagles

August 5-9, 9-11:30 AM

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

Program Bridge

Our lunch time (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 \$25.00/week, students pack their lunch and get to experience hands-on activities and science demos until the next class starts.

