

Argonne Computational Science Summer Camps

Summer camps give students the opportunity to work alongside Argonne scientists and engineers at our facilities, where they are exposed to the 21st-century skills and dispositions that make Argonne a center for innovation. Through these experiences, students can explore career opportunities in STEM and also learn from some of the leaders in their respective fields. This unique, professional environment provides young people with the tools and perspectives that can pay dividends for years to come.

Furthermore, by covering everything in our diverse program set from initial exposure and outreach for young students unfamiliar with the field to pushing students forward toward more advanced activities that will enrich their STEM skills and professional connections, we set students on a pathway to scientific excellence. Check out their exciting camp opportunities today!

CodeGirls: June 27 – July 1, 2022 CodeGirls@Argonne Camp brings together 6th and 7th grade girls to take the first step in exploring what it means to think like an Argonne computer scientist!

Along the way in this **free**, 5-day program, participants will connect with other girls and solve fun challenges as a team. You'll also meet inspiring Argonne women scientists who are using code to solve the big challenges of our world, and learn about the awesome role that women have played throughout history in developing technology.

No coding experience is required, so this is a great opportunity for young girls with no past knowledge of the field to get their first dive into the amazing world of coding, robotics, and science! Start your journey on the science pathway with the camp today!

Coding for Science Camp July 18-July 22, 2022 At Argonne's summer computing workshop, high school students have a once-in-a-lifetime opportunity to learn how to code from some of the best and brightest computer scientists in the nation. No prior coding experience necessary. In this free, five-day enrichment experience, students learn Python, connect with Argonne computer scientists. Through the course of this program, participants can expect to:

- Enhance their problem-solving and teamwork skills through hands-on activities.
- Develop a 21st Century skill in a supportive and collaborative environment.
- Discover how computing is useful and sometimes essential to solving problems in science.
- Explore the diverse career pathways that coding can support.
- Interact with Argonne staff members who are at the forefront of high-performance computing and visualization.

Big Data Camp July 25-29, 2022 Big Data Camp brings together high school juniors and seniors into a workshop environment where they will use professional Argonne research data and tools to uncover the secrets of data and look forward at their bright futures. Ready to become a big data detective and find the hidden patterns of our world? It's time to take your blossoming computer science and data skills and raise them to the next level at Argonne. And once you get going on that pathway, you'll be able to investigate just about any question you can dream up.

All About Energy Argonne works in conjunction with the University of Chicago and After School Matters to challenge high school students to find practical sustainability solutions for neighborhoods throughout Chicago. Let by Argonne and the University of Chicago, Office of Civic Engagement, the All About Energy apprenticeship program helps students discover firsthand how to study sustainability issues and enact meaningful changes through workable plans.

The program accepts around 30 students and is limited to students from Chicago Public Schools. Recruitment is administered through [After School Matters](#), so please refer to them for updates on registration.

Ver 1.0



Brookfield Zoo

During these programs, children learn through play with their favorite play partner: you! Artists, nature educators, and early childhood specialist planned these programs from the same principles used to design Hamill Family Play Zoo, which connects children and their families to wildlife and nature. [Click here for more information.](#)

Coding Ninjas (Commercial)

At hundreds of our centers worldwide, kids learn to code in a fun, safe, and inspiring learning environment, with a game-based curriculum that they love. Parents love it too, because their kids make real progress and gain valuable skills while having a great time. Everyone wins! [Click here](#) for more details!

- **At-Home Coding** Your kids can stay engaged and keep coding while they stay home. Boost problem solving and critical thinking skills while having fun, with the support and guidance from Code Senseis.
- **Code Ninjas Create** An exciting learning adventure for tech-loving kids! Have a blast building awesome video games and developing ninja coding skills on the path from white to black belt. Age 7-14
- **Code Ninjas Jr** Build a foundation of coding and critical problem-solving skills through our fun and completely visual curriculum-no reading required! Ages 5-7
- **Code Ninjas Camps** Camps offer an immersive environment for kids to explore and develop new skills, gain confidence, and have fun with friends. From coding and game building to STEM and robotics – it's an unforgettable experience! Summer and Year Round

Digital Media Academy @ University of Chicago (Commercial)

Since 2009, Digital Media Academy has been offering educational summer camps for kids and teens at the University of Chicago. Each year, hundreds of students attend our tech programs and learn a variety of skills, from producing their own music and building Arduino robots, to coding an app or making their own short films. Our classrooms come equipped with all the tools students need to create and develop the STEM skills they need to excel. [Click here for more details!](#)

ID Tech (Commercial)

At iD Tech, kids and teens of all skills levels discover coding, AI, machine learning, film, robotics and game design, developing the in-demand skills needed to compete. [Click here](#) to find more information on programs and courses near you!

Illinois Dept of Natural Resources (Various Locations)

The Illinois Department of Natural Resources offers many unique opportunities for students. The links below will take you to the specific information about each of these programs. For the full listing [click here](#).

Illinois Institute of Technology (IIT)

Enrich your summer experience by exploring our Pre-College programs in Computing and Technology. This summer Illinois Tech is offering several online programs for high school students who are interested in learning more about information technology, computing, and next-generation technologies. Check out program selection, and prepare to discover with Illinois Tech – Chicago's only tech-focused university- this summer! Topics include: Artificial Intelligences, Game Design, Cybersecurity, Psychology, Architecture and many more! To view all program offerings, [click here](#).



College of Lake County (Grayslake)

Don't let summer idle by when your kids could be learning something new. Affordable and educational summer camps and classes are happening at College of Lake County (CLC). Students in first grade through high school have a wide variety of weekly camps they will benefit from socially and academically.

Taught by experienced educators, many camps for younger students are STEAM-based (Science, Technology, Engineering, Arts and Math) and utilize CLC's vast resources and teaching options. These camps cleverly disguise academic enrichment as fun. LEGO workshops, storytelling, engineering and film making are just some of the sessions being prepared for this summer.

High school students enjoy career exploration camps where they sample careers before committing to a course of study. Most of these classes are taught in lab classrooms, just like the regular college classes by CLC instructors. They are the perfect way for teens to test-drive a career before they commit. SAT prep study classes are also available. For more information, [click here!](#)

- [Explore programs](#) for Students in Grades 1-8 Classes and camps cleverly disguise academic enrichment as fun. Challenging STEAM-based classes are taught by experienced educators who have a passion for inspiring kids.
- [Engage Programs](#) for Teens in Grades 9-12 Provides STEM-based career exploration and innovative experiences for teens – classes and summer camps. The perfect way for teens to test-drive a career!

Governors State University STEAM Camp

GSU's STEAM Camp provides an exceptional opportunity for today's student to become tomorrow's innovators through extensive interaction with highly qualified faculty, students, business, and industry volunteers and each other.

Activity tutorials, experiments, field activities, project-based learning, field trips, and presentation opportunities are organized on a fun and structured schedule, encouraging students to envision STEAM careers or greater knowledge of how STEAM might inform their lives. The hands-on nature of the camp activities challenges campers to work together in a series of fun and thought-provoking individual, family, and team-based activities.

Cost: \$150 per session, per camper. Early registration discount available. Limited number of need-based scholarships available. For more information and to [Register Now!](#)

Illinois Institute of Technology (IIT)

Pre-college Programs in Computing and Technology

Enrich your summer experience by exploring our Pre-College programs in Computing and Technology. This summer Illinois Tech is offering several online programs for high school students who are interested in learning more about information technology, computing, and next-generation technologies. Check out program selection, and prepare to discover with Illinois Tech – Chicago's only tech-focused university- this summer! Topics include: Artificial Intelligences, Game Design, Cybersecurity, Psychology, Architecture and many more! To view all program offerings, [click here](#).

Lewis University

Summer STEAM Camp will energize your child and immerse them into engaging, innovative and forward thinking STEAM experiences. Choose from 8 unique STEAM topics! Each week offers hands-on, real world, active STEAM activities for ages 9-17 years old. Our Summer STEAM Camp will be hosted at the state of the art Lewis University where your child will soar to new heights! Summer STEAM Camp runs from June 20-August 12, 2022. [Click here](#) to view weekly experiences and register!

- [Ages 9-11](#)
- [Ages 12-14](#)
- [Ages 15-17](#)



The Morton Arboretum

This summer, unlock your child's imagination with interactive outdoor adventures among 1,700 acres of trees at The Morton Arboretum's 2022 Summer Science Camps. Through science experiments, STEM, art, and creative play, The Morton Arboretum's innovative camps will inspire your child to become a tree champion.

Discover more than 100 camps for children in prekindergarten through eighth grade, designed by Arboretum experts. These camps provide a foundation for the next generation of young conservation and environmental scientists, artists and outdoor enthusiasts. Week-long camps run Monday, June 6, through Friday, August 12. Sample courses include:

- **Drawn to Nature** Become a nature artist
- **Gotta Grow** Water your curiosity with a microscope!
- **Hopping Through Habitats** Some animals dig, some fly, and some swim!
- [Click here](#) for entire course offerings!

Northern Illinois University (NIU)

NIU STEAM camps A week on a college campus can be a life-changing experience for a young person. It offers a chance to build friendships. To engage in intellectual development and career exploration. To gain confidence in social and academic realms that sets the stage for future success. Campers return year after year because of connections they create with peers who share their interests and passions and with faculty and staff who nurture their creativity. This may be the first time a camper develops their own robot, film or video game or conducts and experiment of their own design. But it likely won't be the last! Featured learning topics include: Coding, Science, Space, Robotics and many more. Weekly camps run June through August.

- [Click here](#) for Elementary School Camps
- [Click here](#) for Middle School Camps
- [Click here](#) for High School Camps

University of Illinois at Chicago (UIC)

STEM Academy Pre-College Summer Program June 20 – July 22, 2022 The UIC – Chance STEM academy Program is a five-week academically intensive program providing hands-on experiences in group settings, led by UIC faculty and staff.

In partnership with the **UIC College of Engineering** and **ComEd Exelon**, our rigorous eLearning programming promises to afford students access to engaging activities, project-based learning, interactive sessions with live instruction. [Click here](#) for more course details and an application to the program.

Illinois Mathematics and Science Academy – Summer @ IMSA 2022

The IMSA Student Enrichment Team is bringing a slate of amazing STEM-based summer camps to the community! Camps offered include:

- Dream City – grades 3-4
- Mission Impossible - grades 5-6
- E3 – Extreme Engineering Explorations - grades 7-8
- TALENT Ignite Summer Camp - grades 7, 8, 9
- Biomedical Engineering and the Heart (virtual)- grades 8-9
- Artificial Intelligence (virtual) - grades 7-10: STEM League
- [Click here for more details!](#)



University of Illinois at Urbana—Champaign

Worldwide Youth in Science and Engineering Program (WYSE) High School Summer Camps at the University of Illinois at Urbana-Champaign's Grainger College of Engineering are designed to provide STEM-interested students the opportunity to experience advanced curricula at one of the best engineering schools in the nation and the world. The camps provide exposure to different areas of engineering through demonstrations, classroom presentations, hands-on activities, and interactions with various students, staff, and professors in those fields.

Enrollment in the WYSE Camp programs is limited to ensure the quality of the academic experience for all involved. The camps have a merit-based admissions process and scholarships are available.

[Survey of Engineering disciplines Camps](#) (9th – 12th graders) Want to learn more about the different types of engineering available for study or future careers? Sample 10+ Engineering majors or fields by attending any one of the three Survey Of Engineering camp sessions.

[3D \(Deeper Dive into a Discipline\)](#) sessions (9th – 12th graders) Take a Deeper Dive into a Discipline of Engineering with a full week of focused exploration. Sample camps include Aerospace Engineering, Bioengineering, Materials Science & Engineering and many more!

Homewood Science Center

Homewood Science Center inspires scientific wonder, learning, and pursuit. The Village of Homewood strived to bring a science center to their community since 2010. Village leaders wanted to create a STEM based science center designed for people of all ages, encourage intergenerational and lifelong learning, stimulate curiosity, and inspire people to make science and technology a greater part of their lives! Homewood Science Center has a diverse offering of programs including *Science at Home*, *Girls STEAM*, *STEM Network*, *Ecology Internships*, *Citizen Science*, *Video Courses* and *Student Film Fests*. See the [Homewood Science Center](#) for a complete description of all events, classes, programs, and camps!

Summer camps include:

- Digital Fix (Ages 11-13)
- Makey Makey Design Studio (Ages 8-11)
- EC STEM Camp (Ages 5-8)
- HSC Kid News (Ages 10-12)
- Crime Scene Investigation (Ages 8-10)
- Crafty Learners (Ages 4-7)
-

Western Illinois University Summer Camps (WIU)

- **WIU's Summer STEM Camps** (Grade 9 - 12) July 11-15, 2022
WIU's STEM Camp is a unique summer camp opportunity for 9th-12th graders with an interest in science who want to explore careers in various scientific activities from a variety of disciplines. It is being offered as a learning experience for those interested, with the goal of keeping our students academically engaged this upcoming summer. [Click here](#) for more details.
- **Art: Colorful Minds and Creative Hands**, Grades 9-12 June 19-24, 2022
Western Illinois University's summer art program is designed for students in grades 9 through 12. This program is a 1 week program of art workshops led by local artists and faculty from WIU's Department of Art & Design. A great learning experience for those excited about art and/or what it might be like to be an art student at WIU! [Click here](#) for more details.



Lake County Forest Preserves

In 2022, Lake County Forest Preserve is offering a variety of hands-on nature, history and conservation education programs for children and teenagers ages 4-16. Programs range from consecutive 3-day and 5-day options, to program series where you can choose to attend some of all sessions, to programs you can experience with your child. The programs, each with a history or nature component, are designed to inspire and develop critical thinking skills. The programs provide time for team building, exploration and play.

A wide variety of topics allow participants to explore everything from gardening to historic sites to discovering nature while canoeing. Many new adventures have been added, including the Nature at Night series. The programs provide something for everyone! For a list of all Summer Adventures programs [click here!](#)

Fermilab – Science Classes for Kids and Families

Fermilab offers classes for children and families during the summer months of June, July and August and on Saturdays during the school year. Experienced instructors teach classes covering a variety of science and mathematics topics. Announcement brochures are available in April, August and December. [Click here](#) and use the orange menu on the right to look for adventures and register. Contact: Science Adventures Registrar, Education Office for more information at 630-8401-8258

First Illinois Robotics – Workshops, Summer Camps, and Scrimmages!

A scrimmage is like a mini-tournament that provides teams with valuable experience in head-to-head competition with other teams, without the pressure of an actual tournament. Most scrimmages are hosted by an FLL team which wants to provide an opportunity for other teams to get together and share ideas, and a change to practice their FLL skills. These events are typically held in September – November leading up to the official FLL competitions. [Registration information is here!](#)

Workshops can be from a few hours to a full day of concentrated training and the sharing of ideas between coaches and teams. These are hosted by FIRST Robotics Challenge teams as part of their outreach activities. [More information here!](#)

Typically summer camps provide two or more days of training for students in all aspects of the FIRST LEGO League program including robot building, programming and strategy. They often will also provide help with FLL Project concepts, research and idea sharing methods.

- Champaign Illinois – two 1 week camps for incoming 3rd-5th graders. For more information [click here!](#)
- Belleville Illinois – Robo Raiders is hosting a camp for students in 2nd – 8th grades. Lego robot kits are used to teach the basics of programming, core values, problem solving, and provide students with a FIRST Robotics themed challenge! For more information, please see the [Robo Raiders website](#).

Galileo

At camp, children experience the Outdoors, Art, Science, and most importantly, they have FUN! Our weekly themes combined with traditional camp activities (like lanyards, water days and camp songs) have made Camp Galileo a favorite for over 20 years! Programs for Pre0K – 10th Grades. [Check them out!](#)



DuPage Children's Museum Arts & STEM with DCM

Spark curiosity and promote critical thinking through hands-on discovery. Arts & STEM with DCM labs are aligned with Next Generation Science Standards and embed multiple connections to Social Emotional Learning outcomes. Students will explore their curiosity while making big discoveries about Science, Technology, Engineering, Math, and Art.

Each 60 minute lab is led by an experienced DCM educator, with in-person and virtual options available. Students are empowered to be the primary drivers of their own learning – by building, making, engineering, and experimenting their way through engaging STEAM challenges. [More details here!](#) Classes include:

- Build a Bridge – grades K-3
- Create a Creature – grades K-3
- The Art of Shapes – grades 1-4
- Sound All Around – grades 1-4
- Wings and Things – grades 3-5

Accelerate Indoor Speedway (GoCarting) Summer Camp

In these summer camps, your kids will experience a powerful combination of fun and education that you cannot get anywhere else! They will see how learning can be fun while they apply STEM concepts to the real world and learn to be a faster racer at the same time! [Click here for the camp schedule and registration!](#)

iFLY

Each month, iFLY offers a ton of activities and events that make flying extra special. Fly in amazing virtual reality, celebrate your kids' birthdays and so much more! [Explore everything iFLY has to offer!](#)

- Virtual Reality Flights
- Birthday Parties
- Virtual STEM Learning
- STEM Field Trips
- Boy Scouts Field Trips
- Flight School for Kids
- All Abilities Nights
- Coaching

The Center in Palos Park

The Center's mission is to give people of all faiths, backgrounds and ages the space to dream, grow, and become fully alive – physically, mentally, emotionally, and spiritually. Farm and nature based camping programs for children ages 3-18! They have a wonderful summer planned with a program option for everyone – both overnight and day camps! [Click here for information!](#)

- [Farm and Nature Discovery School](#)
- [The Children's Farm](#)

