MARYVILLE UNIVERSITY

CENTER FOR ACCESS AND ACHIEVEMENT

SUMMER PROGRAMS

GENERAL INFORMATION

MARYVILLE UNIVERSITY | CENTER FOR ACCESS AND ACHIEVEMENT

About Us

Maryville University's Center for Access and Achievement (CA^2) partners with high need school districts and nonprofits to help prepare students with the skills and abilities they need to succeed in STEM fields in college and the careers of the future. Our summer programs include Elementary Science and Robotics, Middle School Teen Tech, and High School Coding Camp. We host over 100 courses for ages 4 – 18 taught by highly qualified faculty including professors, STEM professionals, and teachers with advanced education including gifted, early childhood, and STEM certification.

- Our summer program will be held on Maryville University's Campus from July 13-17 and 20-24, 2026. Registration will open January 19, 2026.
- Hands-on, creative experiences with cutting-edge technologies
- Includes all aspects of Science, Technology, Engineering, Art, and Math (STEM)

Wait List

If a desired course is full, you can choose to be added to a wait list in the store. If a space becomes available all participants on the waitlist will be notified via email. Sign ups are first come first serve. However, please keep in mind that seats rarely open up and it is generally better to sign up for another one of our engaging courses in that time slot to ensure placement within the program.

Lunch Options

Science and Robotics: A supervised lunch buffet lunch is available for purchase for full day participants at registration. Participants may also bring a nut-free lunch.
Teen Tech: A supervised lunch buffet lunch is available for purchase for full day participants at registration. Participants may also bring a nut-free lunch.

Join Our Email List

Click here to join our email list!

Before and After Care

Before and after care is available for Science and Robotics and Teen Tech programs only. Before care is only available for students registered for the morning sessions. After care is only available for students registered for the afternoon session. Before care is from 7:30 a.m. – 9:00 a.m. After care is from 4:00 p.m. – 5:30 p.m. The price is $75 per session (morning or afternoon) per week per child. When participants sign up for both before and after care at the same time, the price is reduced to $100. Further details, including specific location information, will be sent in June.

Refund Policy

If the program is canceled due to university decision all participants will receive a full refund.

For those who register between registration opening through April 30th:
As families often need to make decisions about summer programs very early in the year to schedule the busy summer months and to ensure placement in our fastest selling courses, we understand that sometimes plans change. So that you feel confident paying tuition in the winter and spring for a July program, the Maryville Summer Science and Robotics Program offers a 100% refund policy for courses until April 30th.

However, in order to maintain small class sizes, we offer limited placements in each class and most of our classes sell out by spring. When you pay tuition for a class in our program, you reserve a placement for your child that no one else can purchase. By May, many families have made summer plans and we are often unable to resell placements. Therefore, unless we have a child on the course waiting list that takes your child's place, we can only offer a 50% refund from May 1 through June 15 and are unable to offer refunds June 16 and afterward except in extreme cases such as a death in the family or medical emergency.

Late registrant policy:
For those who register on May 1 or after, we offer a 100% refund through June 15 and a 50% refund through the onset of the program. For those who register after June 15, we offer a 100% refund through the onset of the program.

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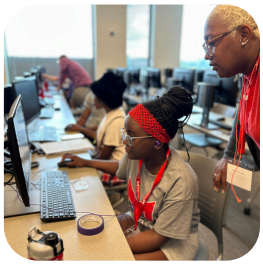

High School Program

MARYVILLE UNIVERSITY

CENTER FOR ACCESS AND ACHIEVEMENT

Address
650 Maryville University
St. Louis, MO 63141

Email
stem@maryville.edu

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314.281.1120

Social Media

MARYVILLE.EDU/STEM

SCIENCE AND ROBOTICS OVERVIEW

9 a.m. - 12 p.m. Session | **1 p.m. - 4 p.m. Session**

Ages 4-5	July 13-17 am session	July 13-17 pm session	July 20-24 am session	July 20-24 pm session
Remarkable Reactions		x	x	
STEM Explorers: Simple Machines			x	
STEM Sprouts	x			
Terrific Transportation	x			x

Ages 5-7	July 13-17 am session	July 13-17 pm session	July 20-24 am session	July 20-24 pm session
Animal Adventures	x	x		
Engineering the Future of Play			x	
FIRST LEGO League Explore- UNEARTHED with LEGO® Spike	x			x
Imagination to Innovation: Engineering Design Challenges				x
LEGO® Spike Essential Robotics		x	x	
LEGO® WeDo Robotics: Animals in STEM	x			x
Microscope Magic		x	x	
Mix, Make, and Experiment Lab		x		
Nature Investigators	x			x
Sky Explorers		x		
Sphero Robo Soccer Championship				x
STEM Adventures Around the World	x	x		
Young Detectives - I Spy a Forensic Scientist			x	

SCIENCE AND ROBOTICS OVERVIEW

9 a.m. - 12 p.m. Session | **1 p.m. - 4 p.m. Session**

Ages 7-9	July 13-17 am session	July 13-17 pm session	July 20-24 am session	July 20-24 pm session
Animal GrossOlogy: A Totally Gross Class!	x			x
Coding 101	x		x	
Colorful Creations				x
Electricity Playgound			x	
Engineering the Future of Play		x		
Gravity Grand Prix	x			x
LEGO® WeDo Robotics: Animals in STEM		x	x	
Marvelous Makers	x			x
Micro:bit Lab: Design, Code, and Create	x			
Movie Making		x	x	
Playground Engineering with Lego WeDo 2.0		x		
Rock Hounds: Rocks, Crystals and More		x	x	
Sphero Robot Soccer Championship	x			
Sphero the Hero				x
STEM Explorers: Simple Machines		x		
Vehicle Challenges with Lego WeDo 2.0 Robotics	x			
Young Detectives - I Spy a Forensic Scientist			x	

SCIENCE AND ROBOTICS OVERVIEW

9 a.m. - 12 p.m. Session | **1 p.m. - 4 p.m. Session**

Ages 9-12	July 13-17 am session	July 13-17 pm session	July 20-24 am session	July 20-24 pm session
AI with Super Smash Bros. Ultimate	x			x
Electricity Playgound		x		
Epic Quest Engineers	x		x	
Game On! Design your Own Board Game		x		x
Hollywood Film Makers: Green Screens and Beyond!		x	x	
Intro to 3D Printing and TinkerCad	x	x	x	x
LEGO EV3 Robot Arcade	x			x
Level Design with Mario Maker 2		x	x	
Minecraft Mania	x	x		
Smart Cities: STEM Design Lab				x
Sphero the Hero	x			
Stop Motion	x		x	
Video Game Design			x	x
Virtual Worlds and Beyond: Exploring 3D Creation and VR Technology	x	x	x	x

TEEN TECH OVERVIEW

9 a.m. - 12 p.m. Session | **1 p.m. - 4 p.m. Session**

Teen Tech	July 13-17 am session	July 13-17 pm session	July 20-24 am session	July 20-24 pm session
City of Tomorrow Design Challenge		x		
Coding Explorers: Adventures in Python Programming				x
Engineering the Future with LEGO® SPIKE Robotics	x	x		
Escape Room Arcade			x	x
Intro to 3D Printing and TinkerCad	x	x	x	x
Level Up: Game Development with Unity	x		x	
Virtual Worlds and Beyond: Exploring 3D Creation and VR Technology	x	x	x	x

SCIENCE AND ROBOTICS AGES 4-5

Remarkable Reactions

Chemical reactions are fun, hands-on learning! From erupting LEGO® volcanoes to fizzing Pokeballs, and bath bombs participants will explore various chemical reactions and learn the science behind it all. As a bonus, students will also get the chance to code and operate KIBO the Robot. Students will share a selected activity with their family at the end of the week.

Session 1 | 1-4 pm | $150

Session 2 | 9 am- 12 pm | $150

STEM Explorers: Simple Machines

Join our STEM Explorers class where we will learn about simple machines and get creative with recyclable materials as we design and build our very own projects. Get ready for a hands-on adventure that will have your little engineer excited to explore the world of science and engineering.

Session 2 | 1-4 pm | $150

MARYVILLE.EDU/STEM

SCIENCE AND ROBOTICS AGES 4-5

STEM Sprouts

Step into the world of STEM this summer! This foundational course nurtures curiosity, creativity, and confidence while introducing young learners to Science, Technology, Engineering, and Math in a fun, hands-on way. Students will learn through daily investigations, challenges, and games. They will also learn the basics of coding—no screen needed—with each student getting hands-on experience coding KIBO the robot.

Session 1 | 9 am- 12 pm | $150

Terrific Transportation

Cars, trains, planes, boats, and even rockets! This class will explore transportation through hands-on science activities. Make a car powered by vinegar and baking soda. Create the ultimate train car using makerspace items. Design a boat that can hold the most weight without sinking. Build an air powered rocket and see how far it will travel. This class will also use Maryville's MAP Mats and Kibo Bots as part of our explorations throughout the week.

Session 1 | 9 am- 12 pm | $150

Session 2 | 1-4 pm | $150

SCIENCE AND ROBOTICS AGES 5-7

Imagination to Innovation: Engineering Design Challenges

Students will use children's literature – stories, novels, and expository texts – as the basis for engineering design challenge(s). This will help them identify problems, design realistic solutions, and engage in the Engineering Design Process while reinforcing their literacy skills

Session 2 | 1-4 pm | $195

Sphero Robo Soccer Championship

Students use the engineering design process to create a battle shell for their Sphero robot. Then, students play Robo-Soccer and try to knock over their opponent, protect themselves and score goals.

Session 2 | 1-4 pm | $225

SCIENCE AND ROBOTICS AGES 5-7

FIRST LEGO League Explore-UNEARTHED with LEGO Spike Essentials

Grab your magnifying glass! This season's challenge takes students on an archaeological adventure where they become junior archaeologists, historians, and engineers.

Participants will explore artifacts and ancient technologies, learn about the real challenges archaeologists face, and then use LEGO bricks and SPIKE Essential to design and code a motorized model that solves a problem connected to the theme.

Students will wrap up by sharing their discoveries and creative solutions on a Team Poster at a Festival of Discovery.

UNEARTHED℠ invites young makers to dig deep, explore the past, and use their ideas to inspire the future.

Session 1 | 9 am- 12 pm | $250

Session 2 | 1-4 pm| $250

Animal Adventures

Embark on an awesome adventure where students become nature detectives! In this super cool course, we'll uncover the secrets of how animals adapt to survive and have a blast inventing our very own critters designed for a special habitat. But that's not all – get ready to dive into the world of robots and coding games! With these cool tools, we'll bring our imaginary animals to life, seeing how they move and groove in their make-believe world. It's a mix of science, creativity, and tech fun, where young explorers get to be both scientists and inventors. Join us for a wild ride as we discover the wonders of animal adaptations in the coolest way possible!

Session 1 | 9 am- 12 pm | $195

Session 1 | 1-4 pm| $195

LEGO Spike Essential Robotics

Is your student ready to become a master inventor? Join the Creative Robotics Lab, where LEGO® bricks meet the magic of coding! In this hands-on class, kids use LEGO Spike Essentials to build and code playful robotic creations. Each session brings a new challenge that inspires teamwork, problem-solving, and tons of creativity.

Students will design imaginative builds and code animations and movements. It's the perfect environment for young minds to explore Science, Technology, Engineering, Arts, and Math (STEAM) in a hands-on, unforgettable way. Every day is a chance to imagine, build, and code something new!

Session 1 | 1-4 pm | $250

Session 2 | 9 am- 12 pm | $250

SCIENCE AND ROBOTICS AGES 5-7

LEGO® WeDo Robotics: Animals in STEM

We will utilize LEGO® WeDo Robotics to craft a diverse range of animals and machines. As students become acquainted with the fundamentals of WeDo, participants will have the opportunity to infuse their model designs with their own creativity and ingenuity. Join us in this exciting adventure, where the fun of building with LEGO® merges seamlessly with the magic of making robots come to life. Discover how the animal kingdom can inspire your journey through the realms of STEM, all while having a blast with hands-on robotics exploration.

Session 1 | 9 am- 12 pm | $225

Session 2 | 1-4 pm | $225

Microscope Magic: Mysteries of the Tiny World!

Discover the Tiny World! Through hands-on exploration, students will actively engage with digital microscopes to unlock the secrets of the unseen. They'll have the opportunity to observe and investigate various specimens, from the intricate world of microorganisms to the detailed structures of everyday objects, all under the lens of a microscope. Get ready to explore the intricate, hidden world of the very small and witness the marvels of microscopy firsthand!

Session 1 | 1-4 pm | $225

Session 2 | 9 am- 12 pm | $225

Mix, Make, and Experiment Lab: Chemistry and STEM in Action

Students will use hands-on, project-based activities to teach foundational concepts in an engaging way. Activities connect abstract ideas like chemical reactions and states of matter to real-world experiences through simple experiments, cooking, and building challenges. This approach builds critical thinking, problem-solving skills, and a love for science, technology, engineering, and math from an early age.

Session 1 | 1-4 pm | $195

SCIENCE AND ROBOTICS AGES 5-7

Nature Investigators

Get ready for a week of outdoor discovery! Our Nature Investigators will transform the outdoors into a hands-on science lab. Children will learn how to think like scientists, engineers, and naturalists as they explore the wonders of the living world. This course is packed with hands-on exploration and fun, encouraging curiosity while developing observation skills, engineering principles, and a lifelong appreciation for nature.

Session 1 | 9 am- 12 pm | $195

Session 2 | 1-4 pm | $195

Sky Explorers

Blast off and reach for the stars! Young explorers will launch straw rockets, create flying inventions, and explore clouds, constellations, and other cosmic wonders. They will observe the real sky outdoors and engage in playful challenges that teach motion, gravity, and the wonders of space. Over the course of the week, campers will also build and code a LEGO® Education SPIKE robot, developing early engineering and coding skills while exploring movement and flight-inspired patterns.

Session 1 | 1-4 pm | $225

Engineering the Future of Play

Spark your child's imagination and unleash their inner inventor this summer in our Toy Creator's Circuit Lab! Using Makey-Makey technology and Scratch Coding, students design and build their own unique circuit-powered toy that can make sounds or even "talk." Bring ideas to life by coding voices, noises, and interactions while turning everyday objects into exciting, one-of-a-kind inventions. Dive into the magic of circuitry and coding, and get ready to create, innovate, and bring toy ideas to life!

Session 2 | 9 am- 12 pm | $225

SCIENCE AND ROBOTICS AGES 5-7

STEM Adventures Around the World

Grab your passport and get ready for a STEM adventure! In this class, students will "travel" to different parts of the world and discover cool inventions, clever ideas, and fun science from many cultures.

Kids will try hands-on experiments, build simple creations, and complete playful challenges inspired by places near and far. One day we might explore how people clean water, another day how they build strong homes, and another how they use wind, sun, or motion to power things.

It's a bright, exciting class where kids create, explore, and learn that awesome ideas come from everywhere. The whole world becomes a playground for curiosity!

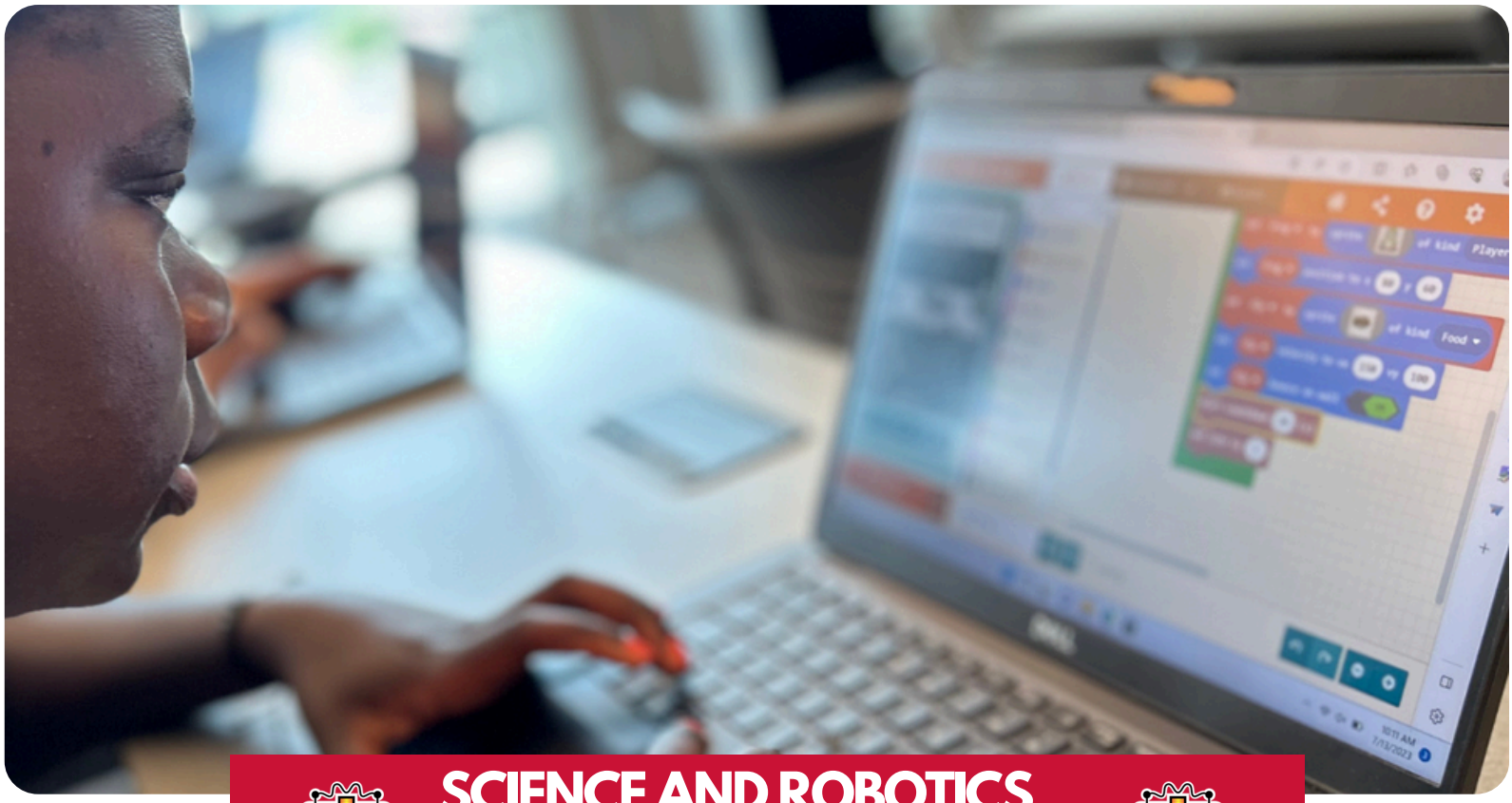
Session 1 | 9 am- 12 pm| $195

Session 1 | 1-4 pm| $195

Young Detectives - I Spy a Forensic Scientist

"Young Detectives - I Spy a Forensic Scientist." Each day we will engage in hands-on science activities to help solve a mystery! Students will look for clues and collect evidence and then bring the evidence back to the 'Maryville Crime Lab' for testing. Students will work together and to analyze fingerprints, trace evidence, impressions and more!

Session 2 | 9 am- 12 pm | $195



SCIENCE AND ROBOTICS AGES 7-9

Gravity Grand Prix

Get ready for an action-packed adventure in our Gravity Grand Prix course! In this thrilling unit, young racers will dive into the exciting world of potential and kinetic energy, using a complete Hot Wheels set as their playground. Through hands-on experiments and interactive challenges, kids will explore the science behind making those mini-cars zoom and soar. Inspired by the skills of real-life NASCAR drivers, they'll become engineers in training, tweaking variables to boost the distance their Hot Wheels travel with precision and flair. Science Spectacular Speedway is revved up and ready to ignite the spark of scientific curiosity in our young racers, just like the pros on the NASCAR track!

Session 1 | 9 am- 12 pm | $195

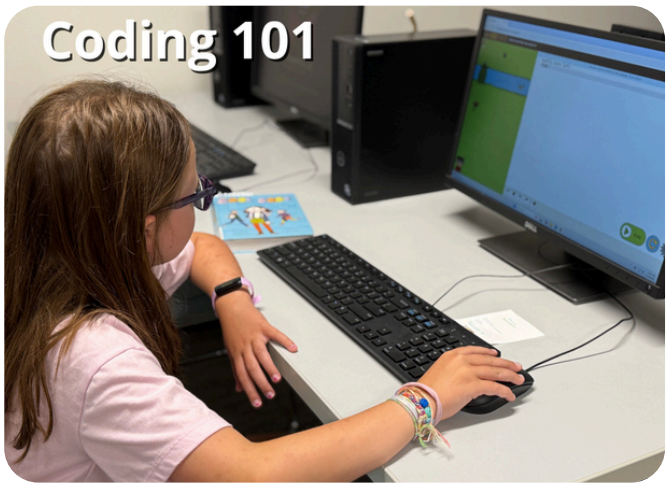
Session 2 | 1-4 pm | $195

Coding 101

Ready to code? In this beginner-friendly class, students use CodeMonkey to learn the basics of computer science and what it means to think like a programmer. Through fun, guided challenges, kids learn at their own pace as they write code, solve puzzles, and build confidence step by step.

Session 1 | 9 am- 12 pm | $225

Session 2 | 9 am- 12 pm | $225



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SCIENCE AND ROBOTICS AGES 7-9

Colorful Creations

Colorful creation is a hands-on experience to express creativity while learning about color theory. We will paint, mix, and build as we explore colors and textures!

Session 2 | 1-4 pm | $195

Animal GrossOlogy: A Totally Gross Class!

Get ready to dive into the slimy, smelly, totally ewwww world of animal survival! If you love all things gross, this hands-on class is your dream come true.

We'll explore the wild and weird ways animals use things like blood, poop, slime, and even vomit to stay alive. And yes... you'll get to make, touch, and investigate all kinds of gross-but-awesome stuff.

Students will have the chance to sculpt realistic poop models to learn about animal diets, dissect real owl pellets to uncover bones, mix up homemade snail slime to see why it's so useful, and discover surprising "gross" animal adaptations that actually help humans too.

Come ready to squish, squeeze, and explore the messy side of nature. Aprons recommended. Every student leaves with a Gross Master certificate and a whole lot of weird, wonderful facts to share at dinner.

Session 1 | 9 am- 12 pm | $195

Session 2 | 1-4 pm | $195

Electricity Playgound

Explore the electrifying wonders of "Electricity Playground"! Unleash your creativity by making music with bananas and crafting cardboard electric guitars. In this hands-on course, we'll discover the fascinating world of conductivity and learn how to harness its power. From crafting working stop lights to designing light-up greeting cards, get ready for a thrilling journey where science and imagination fuse together. Join us for an electrifying experience that promises to spark your curiosity and ignite your love for all things electric!

Session 2 | 9 am- 12 pm | $250

Engineering the Future of Play

Spark your child's imagination and unleash their inner inventor this summer in our Toy Creator's Circuit Lab! Using Makey-Makey technology and Scratch Coding, students design and build their own unique circuit-powered toy that can make sounds or even "talk." Bring ideas to life by coding voices, noises, and interactions while turning everyday objects into exciting, one-of-a-kind inventions. Dive into the magic of circuitry and coding, and get ready to create, innovate, and bring toy ideas to life!

Session 1 | 1-4 pm | $225

SCIENCE AND ROBOTICS AGES 7-9

LEGO® WeDo Robotics: Animals in STEM

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Session 1 | 1-4 pm | $225

Session 2 | 9 am- 12 pm | $225

Micro:bit Lab: Design, Code, and Create

In this hands-on class, students will learn the basics of coding while bringing real-world Micro:bit projects to life. We'll start simple by creating digital name badges and animations, then level up into interactive projects that use inputs, outputs, and sensors.

Students will design an emotion badge, build tools like a night-light and step counter, and finish by coding their very own Micro:bit version of Rock, Paper, Scissors. Each lesson builds on the last, helping students grow confidence as makers, problem-solvers, and creative thinkers.

Session 1 | 9 am- 12 pm | $225

Marvelous Makers

Join us for a journey of exploration, invention, problem-solving, and hands-on tinkering in our dynamic MakerSpace class! Each day, students will face exciting new building challenges that will ignite their creativity and innovation. They'll have the chance to dive into both high-tech and low-tech opportunities, including working with Makey Makey, LEGO® WeDo, and a variety of tools and raw materials. On your mark, get set, make!

Session 1 | 9 am- 12 pm | $225

Session 2 | 1-4 pm | $225

SCIENCE AND ROBOTICS AGES 7-9

Playground Engineering with Lego WeDo 2.0

In this exciting class, students will dive into the engineering design process to dream up and create groundbreaking playground inventions. Drawing inspiration from innovative playground equipment, participants will design, build, and program their own imaginative playground features using LEGO® WeDo 2.0 kits. This playful, hands-on experience encourages creativity, problem-solving, and collaboration as students bring their unique ideas to life!

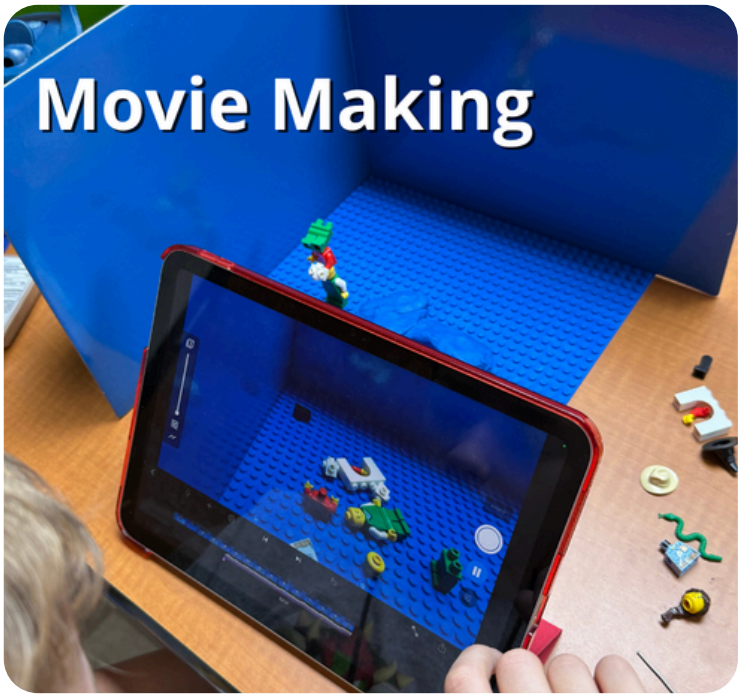
Session 1 | 1-4 pm | $225

Movie Making

We'll use stop-motion animation, iMovie, and green screen apps to bring creative ideas to life on screen. Students will craft their own characters with makerspace materials, design miniature sets, and film their scenes using a mix of fun, kid-friendly tools. By the end, each student will have produced their own mini movie and learned the basics of visual storytelling, editing, and special effects.

Session 1 | 1-4 pm | $225

Session 2 | 9 am- 12 pm | $225



Rock Hounds: A Hands-On Adventure into Rocks, Crystals and More

Crack open a geode and explore the coolest rocks and minerals on the planet. Through hands-on activities we will make exciting discoveries about the earth's physical structure and substance, its history, and the processes that act on it. There will be videos, demonstrations and even an edible rock cycle!

Session 1 | 1-4 pm | $195

Session 2 | 9 am- 12 pm | $195

SCIENCE AND ROBOTICS AGES 7-9

Sphero the Hero

In this action-packed course, young inventors will embark on a thrilling journey using cutting-edge Sphero Mini robots, crafting intricate Rube Goldberg machines, and mastering exciting maze challenges. Unleash your creativity as you design, build, and program your Sphero Mini to navigate through mind-bending mazes, and work collaboratively to construct elaborate Rube Goldberg contraptions that accomplish simple tasks in the most imaginative ways. Get ready to push the boundaries of innovation and problem-solving in a dynamic makerspace setting, where endless possibilities await your ingenious ideas!

Session 2 | 1-4 pm | $225

Sphero Robo Soccer Championship

Students use the engineering design process to create a battle shell for their Sphero robot. Then, students play Robo-Soccer and try to knock over their opponent, protect themselves and score goals.

Session 1 | 9 am-12 pm | $225

STEM Explorers: Simple Machines

Join our STEM Explorers class where we will learn about simple machines and get creative with recyclable materials as we design and build our very own projects. Get ready for a hands-on adventure that will have your little engineer excited to explore the world of science and engineering.

Session 1 | 1-4 pm | $195

SCIENCE AND ROBOTICS AGES 7-9

Vehicle Challenges with Lego WeDo 2.0 Robotics

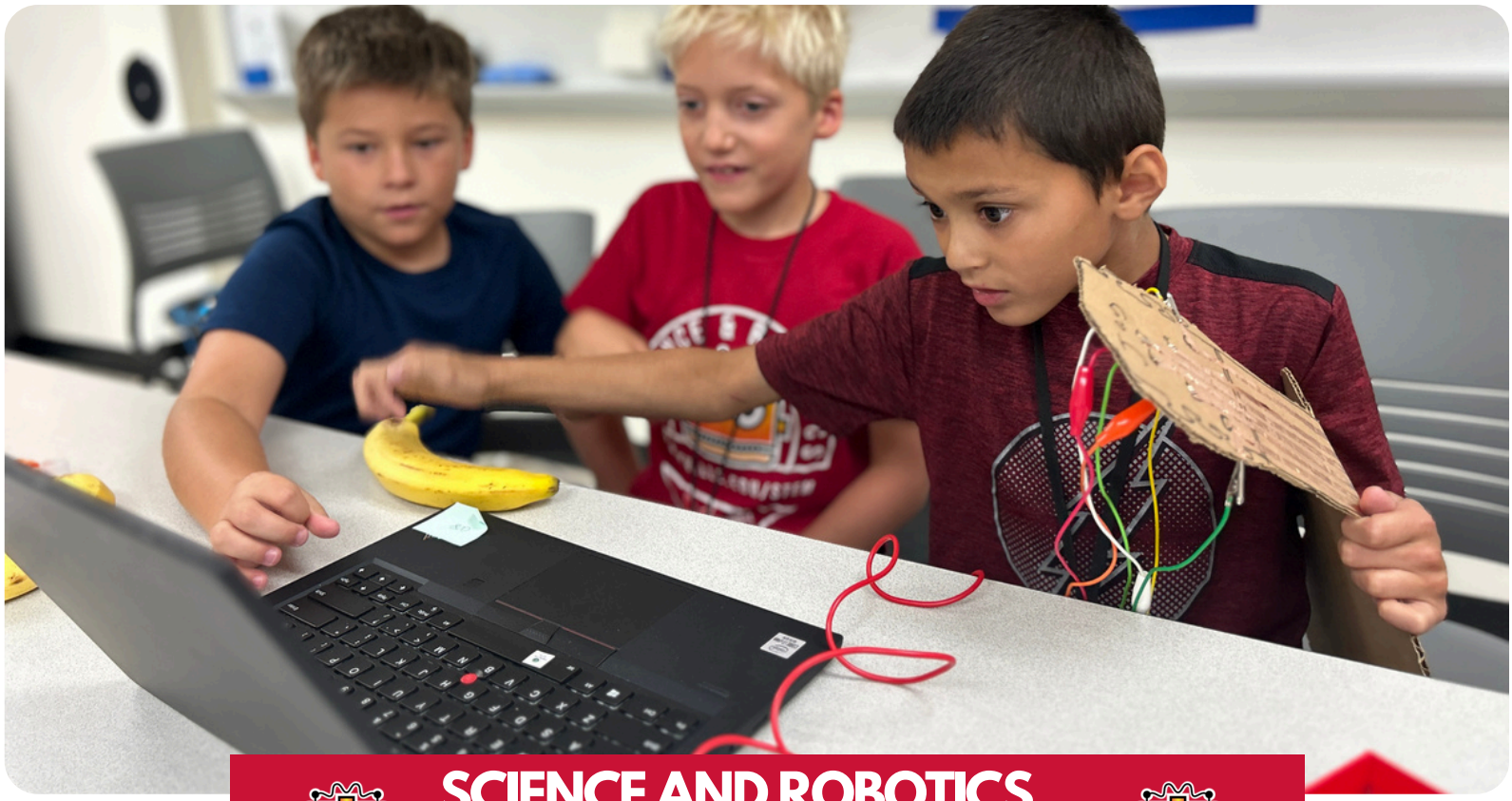
Transportation and construction are all around us! Come learn how to construct a garbage truck, bulldozer, helicopter, and forklift using LEGO® WeDo 2.0 kits. Then, program these machines to do amazing things! Participants will be required to use critical thinking skills to program their vehicles to complete various challenges. After learning how to construct and program different models of machines, participants will have the opportunity to design and build their own!

Session 1 | 9 am-12 pm | $225

Young Detectives - I Spy a Forensic Scientist

Step into the world of mystery and adventure in Young Detectives! In this hands-on, imagination-filled course, students will solve puzzles, uncover clues, and sharpen their observation and reasoning skills. From decoding secret messages to cracking creative "case files," every activity challenges young minds to think critically and have fun while solving the mystery!

Session 2 | 9 am-12 pm | $195



SCIENCE AND ROBOTICS AGES 9-12

Hollywood Film Makers: Green Screens and Beyond!

Ever wondered how movies create special effects? How the weatherman displays the forecast? All will be revealed as students learn how to use green screen and animation technology to create special effects. They'll get to be actors, videographers, and editors as they create short films to share in a festival at the end of the week!

Session 1 | 1-4 pm | $225

Session 2 | 9 am-12 pm | $225

Electricity Playgound

Explore the electrifying wonders of "Electricity Playground"! Unleash your creativity by making music with bananas and crafting cardboard electric guitars. In this hands-on course, we'll discover the fascinating world of conductivity and learn how to harness its power. From crafting working stop lights to designing light-up greeting cards, get ready for a thrilling journey where science and imagination fuse together. Join us for an electrifying experience that promises to spark your curiosity and ignite your love for all things electric!

Session 1 | 1-4 pm | $250

SCIENCE AND ROBOTICS AGES 9-12

Epic Quest Engineers

Kids step into the world of ancient innovators as they tackle hands-on engineering quests inspired by the real inventions, architecture, and problem-solving of early civilization. Each challenge pushes them to think creatively, design prototypes, test ideas, and adapt their builds along the way.

From exploring early machines and simple technologies to experimenting with structures and engineering concepts, students will discover how ancient problem-solvers shaped the foundations of modern STEM. It's an adventure-filled session where curiosity, creativity, and teamwork lead the way.

Session 1 | 9 am-12 pm | $195

Session 2 | 9 am-12 pm | $195

AI with Super Smash Bros. Ultimate

Discover the thrilling world of Super Smash Bros., where you can craft and mold your very own Nintendo character. Dive into the realm of Amiibos, AI-powered figurines that are cherished collectibles but often costly. In this course, we'll show you how to unlock the Amiibo magic without breaking the bank, using affordable NFC chips to simulate these coveted figures at home. Each week, you'll embark on a journey to train and refine your fighter, exploring various abilities and strategies to create the ultimate champion. Each participant will create their own amiibo to take home. Immerse yourself in the world of game design, where balance and problem-solving are the keys to success.

Session 1 | 9 am-12 pm | $250

Session 2 | 1-4 pm | $250

Game On! Design your Own Board Game

In this hands-on, collaborative, creative exploration class, student design their own board game. Students play their favorite games, learn the basics of board game mechanics and techniques, and develop their own game from concept to board and pieces design. Students are encouraged to embrace their ideas, collaborate with new friends, get creative through craft materials, and challenge themselves through play.

Session 1 | 1-4 pm | $195

Session 2 | 1-4 pm | $195

SCIENCE AND ROBOTICS AGES 9-12

LEGO EV3 Robot Arcade

Ready to level up your coding skills? In this class, we will recreate arcade games of luck and skill with LEGO EV3 robots. Students will learn how to code with sensors to create games like pinball, claw machine, fortune wheel, and more! At the end of the week, students will have a game showcase where guests will be able to play-test the class' games.

Session 1 | 9 am-12 pm | $250

Session 2 | 1-4 pm | $250

Level Design with Mario Maker 2

Learn how to design Super Mario Bros. levels like a pro! There are many aspects to game development that make getting started out difficult or intimidating. For an aspiring game designer, Mario Maker handles the artwork and programming, leaving the design aspects entirely up to you! Place blocks and enemies, establish clear conditions, and more to create fascinating levels that are fun for all. Students will follow a kid-friendly process similar to real video game designers who create the games they play at home! Additionally, students work on their communication skills as they present their games to the class and give/receive feedback.

Session 1 | 1-4 pm | $250

Session 2 | 9 am-12 pm | $250

Intro to 3D Printing and TinkerCad

Explore the fascinating world of 3D modeling in our "Intro to 3D modeling and design with Tinkercad" class. Students will learn fundamental design principles and 3D modeling basics. SketchUp is simple enough for a beginner to learn, yet powerful enough for use in a variety of professions, including architecture and interior design, video game development, movie set and exhibit design, and for creating and prototyping models for 3D printing. Students may choose their own project or select from options provided. At the end of our class, students will display their digital 3D model or 3D printed prototype in a culminating mini-exhibition. Join us for a dynamic and inspiring course where young minds turn imagination into tangible, three-dimensional wonders!

Session 1 | 9 am-12 pm | $270

Session 1 | 1-4 pm | $270

Session 2 | 9 am-12 pm | $270

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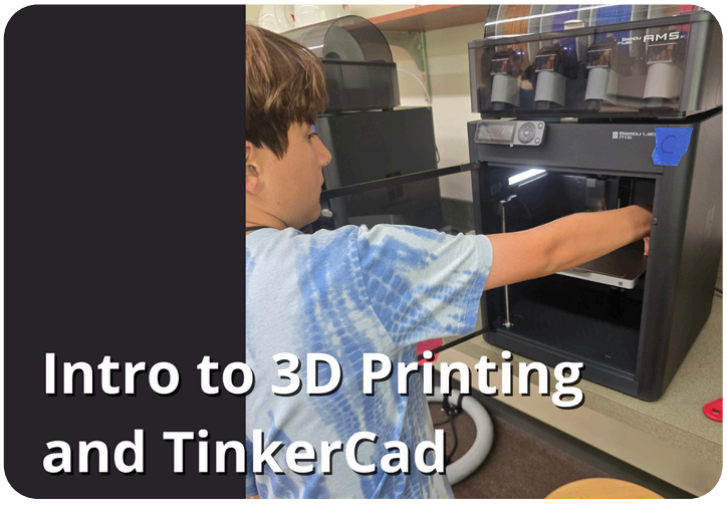

SCIENCE AND ROBOTICS AGES 9-12

Minecraft Mania

This hands-on program invites students to explore the limitless possibilities of Minecraft while developing real-world skills in teamwork, design, and critical thinking. Students will tackle classroom build challenges and block-based coding activities that spark problem-solving, collaboration, creativity, and foundational coding skills—all fueled by imagination. Working together, they'll dive into immersive Minecraft worlds to explore real-world concepts and challenges in meaningful, engaging ways. Every day is a chance to build something amazing—one block at a time.

Session 1 | 9 am-12 pm | $250

Session 1 | 1-4 pm | $250

Sphero the Hero

In this action-packed course, young inventors will embark on a thrilling journey using cutting-edge Sphero Mini robots, crafting intricate Rube Goldberg machines, and mastering exciting maze challenges. Unleash your creativity as you design, build, and program your Sphero Mini to navigate through mind-bending mazes, and work collaboratively to construct elaborate Rube Goldberg contraptions that accomplish simple tasks in the most imaginative ways. Get ready to push the boundaries of innovation and problem-solving in a dynamic makerspace setting, where endless possibilities await your ingenious ideas!

Session 1 | 9 am-12 pm | $225

Smart Cities: STEM Design Lab

Step into the role of future engineers as students imagine, design, and build a next-generation city built for real-world challenges. Throughout the week, they'll explore what makes a city "smart," from transportation and green energy to sustainability, accessibility, and community spaces.

Using the engineering design process, students will brainstorm, sketch, test ideas, and work together to construct a collaborative 3D model of their future-ready city. Along the way, they'll learn beginner-friendly architectural and engineering concepts while solving problems with creativity and teamwork.

Session 2 | 1-4 pm | $195

SCIENCE AND ROBOTICS AGES 9-12

Stop Motion

Create your own stop-motion movie! Learn to insert special effects in films, animation, and more. Students will be able to animate any object and bring it to life. They can also experiment with "freeze-frame" while working with a human subject. Use the Stop Motion Animation App to capture and edit images, add sound, then create your final product to become a real life producer!

Session 1 | 9 am-12 pm | $225

Session 2 | 9 am-12 pm | $225

Video Game Design

Experience a hands-on journey through the history of video game design, from Pong to Pokémon! In this course, we'll explore different eras of game design and play a variety of gaming consoles from across decades. We'll learn where the first video games came from, how they exploded in popularity, and what lies in store for the future of video game designers. All video games played in class are rated E for everyone by the ESRB.

Session 2 | 9 am-12 pm | $270

Session 2 | 1-4 pm | $270

Virtual Worlds and Beyond: Exploring 3D Creation and VR Technology

Step into the future with an immersive journey through virtual reality and 3D creation! In this class, students will use Meta Quest headsets to explore breathtaking virtual environments, learning how VR transports us to new worlds. With Delight X, students will create their own virtual scenes, from designing interactive worlds to building 3D stories, and then experience them through VR. This class combines technology, creativity, and exploration to help students understand and create within digital spaces like never before. Perfect for tech enthusiasts ready to dive into the amazing possibilities of virtual reality and 3D design!

Session 1 | 9 am-12 pm | $270

Session 1 | 1-4 pm | $270

Session 2 | 9 am-12 pm | $270

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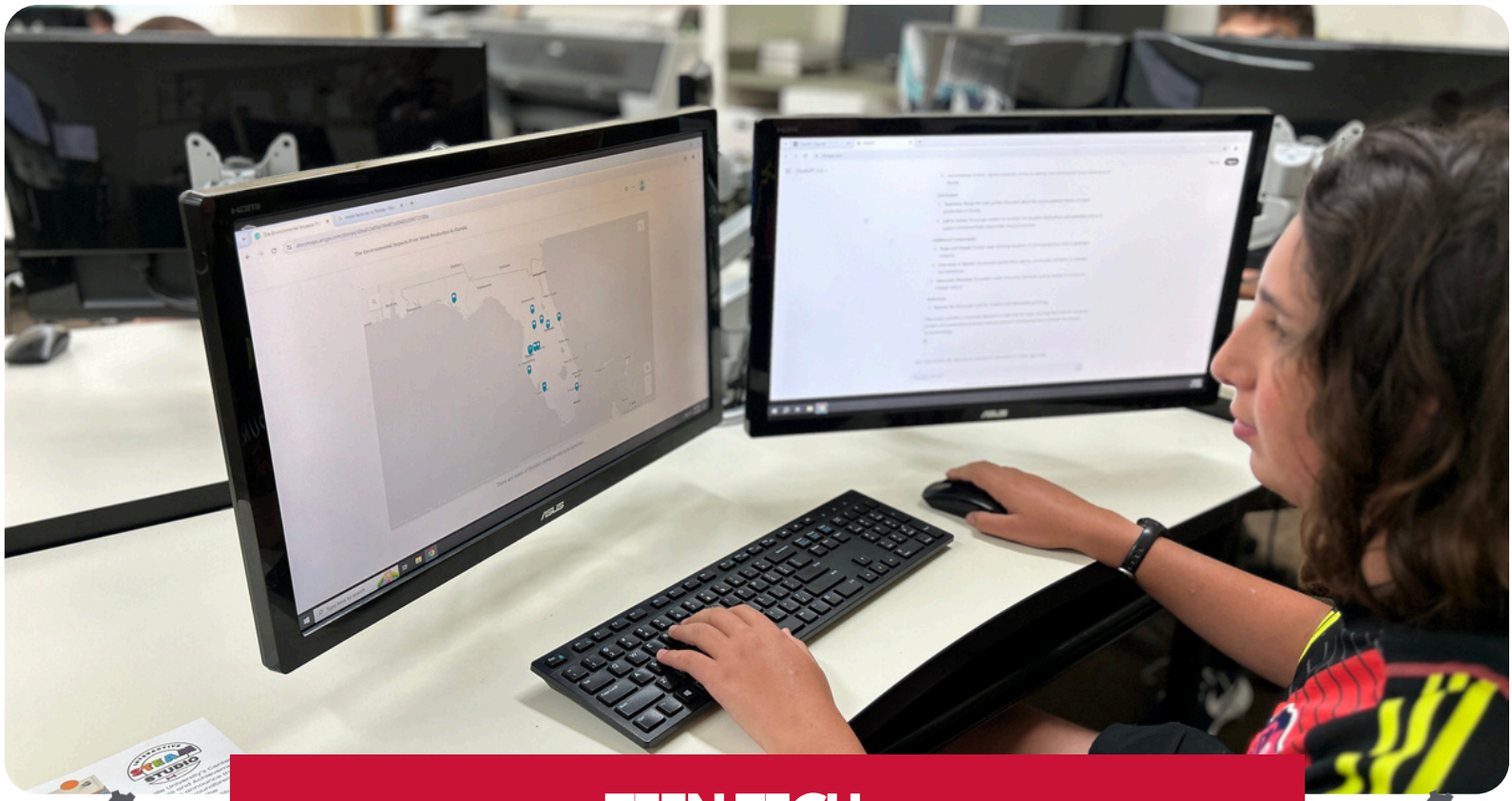

TEEN TECH

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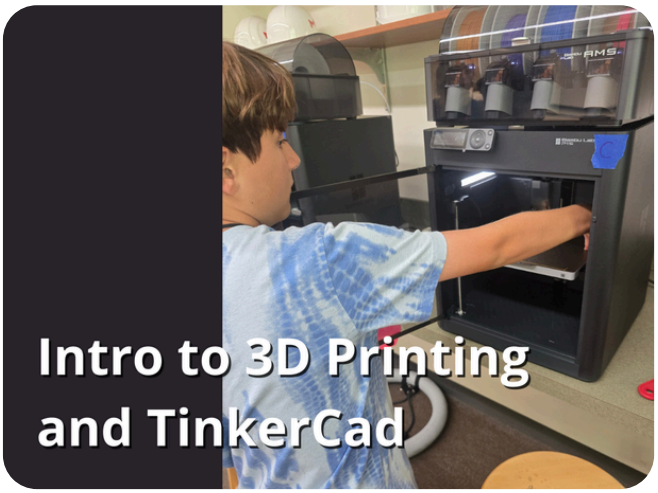

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TEEN TECH

Virtual Worlds and Beyond: Exploring 3D Creation and VR Technology

Step into the future with an immersive journey through virtual reality and 3D creation! In this class, students will use Meta Quest headsets to explore breathtaking virtual environments, learning how VR transports us to new worlds. They'll get hands-on with Merge Cubes, which bring holograms to life right in their hands, allowing them to interact with 3D objects in real-time. With Delight X, students will create their own virtual scenes, from designing interactive worlds to building 3D stories, and then experience them through VR. This class combines technology, creativity, and exploration to help students understand and create within digital spaces like never before. Perfect for tech enthusiasts ready to dive into the amazing possibilities of virtual reality and 3D design!

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Session 2 | 9 am-12 pm | $270

Session 2 | 1-4 pm | $270

Escape Room Arcade

Students become game designers as they build their very own arcade that doubles as an escape room experience. Each game they create will reveal a clue that leads players to the next challenge, forming a full puzzle adventure from start to finish.

Kids will design games that can be solved within a 5-minute window for younger players, then level up the difficulty for older ones. Their creations can use technology, hands-on mechanisms, recycled materials, or a mix of everything—whatever brings their ideas to life.

By the end of class, students will have crafted a working Escape Room Arcade full of clever puzzles, creative builds, and interactive fun."

Session 2 | 9 am-12 pm | $250

Session 2 | 1-4 pm | $250

Level Up: Game Development with Unity

Embark on a game development journey with Unity 3D, a powerful engine for creating popular video games. Students will gain skills to develop 3-5 games for various platforms, fostering creativity and enabling them to share their creations online. All backgrounds and skill levels are welcome!

Session 1 | 9 am-12 pm | $270

Session 2 | 9 am-12 pm | $270

TEEN TECH

Coding Explorers: Adventures in Python Programming

Concepts: Introduction to Python Programming (variables, lists, loops, conditional statements etc.) Coding Explorers is an interactive, story-based summer program that introduces middle school students to the fundamentals of Python programming through hands-on, math-infused adventures. Over the course of one week, students become junior explorers navigating the imaginary Python Jungle, solving puzzles, decoding clues, and exploring the jungle and finding treasure. Designed to blend creativity, logic, and basic mathematics, the course transforms programming for problem-solving and exploration rather than just coding. Each lesson links a core programming skill—such as variables, list, loops, or conditionals with a relatable real-world scenario.

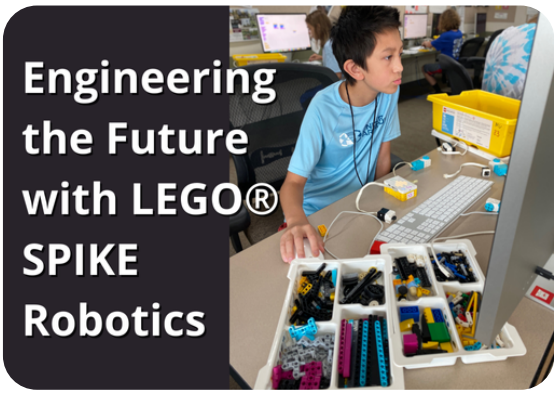
Session 2 | 1-4 pm | $270

Engineering the Future with LEGO® SPIKE Robotics

Engineer with LEGO SPIKE PRIME! Dive into the exciting world of robotics as you build, code, and conquer new challenges each day. From designing innovative machines to solving real-world problems, you'll develop skills in teamwork, engineering, computational thinking, and programming—all while having a blast. With easy-to-use drag-and-drop coding based on Scratch, this class is perfect for aspiring creators and tech enthusiasts ready to turn their imagination into action. Get ready to innovate, collaborate, and bring your robotic creations to life!

Session 1 | 9 am-12 pm | $250

Session 2 | 9 am-12 pm | $250



City of Tomorrow Design Challenge

Step into the role of future engineers as students imagine, design, and build a next-generation city built for real-world challenges. Throughout the week, they'll explore what makes a city "smart," from transportation and green energy to sustainability, accessibility, and community spaces.

Using the engineering design process, students will brainstorm, sketch, test ideas, and work together to construct a collaborative 3D model of their future-ready city. Along the way, they'll learn beginner-friendly architectural and engineering concepts while solving problems with creativity and teamwork.

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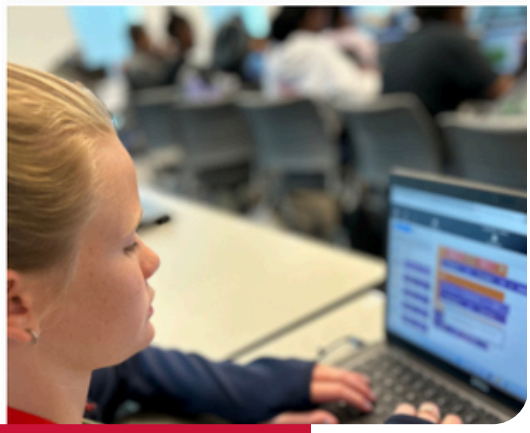

HIGH SCHOOL CODING CAMP

Coding Camp

Become a STEM innovator while immersing yourself in the college experience! The Maryville Coding Camp offers a week-long program crafted to enhance students' understanding of coding and its applications in the contemporary world. This year, participants will engage in hands-on activities using state-of-the-art technologies. Students can choose from a diverse range of coding activities, including crafting music with Python code, delving into Game Design, and exploring various other coding and college life experiences.

High School Session | July 13-17
9:00 a.m.-3:00 p.m.
Cost: $ 275

MARYVILLE.EDU/STEM