

Summer Enrichment Camp Courses 2023

Middle School

An Exploration of Photography

This class will explore a variety of photographic styles that includes alternative process photography, the current use of digital techniques, basic photo editing, and so much more. Students will have an opportunity to develop photographic works in multiple mediums as well as gain an understanding for the photographic process.

Bet On It

Throughout history, cultures have used different types of dice to make decisions and play games. When should you roll again? Should you call the bluff? Cut your losses while you can? We will explore dice games and activities, while we learn the math associated with them.

Discovering Japan through Japanese Anime

Do you like Japanese anime or Japanese culture in general? Have you ever thought about having a chance to learn some Japanese language, try some Japanese food and sweets, and learn about its culture and traditions here in Mississippi? My name is Franco Lopes, and I lived half of my life in Japan working as a translator, baker, and teacher. We will use Japanese Original Manga (Japanese comics) and anime to discover specific aspects of Japanese culture such as food, clothing, and specific Japanese expressions that do not translate well into English. You will learn how to introduce yourself and to use cultural Japanese greetings. This course will help you broaden your cultural understanding of the world.

Engineering and Teamwork

Discover the engineering process and foster your teamwork skills through hands-on activities. Students will work with new partners each day to create cargo containers, a mountainous road, a payload mover, and bore through Mount MSMS.

The Face of STEM

What does a STEM (Science, Technology, Engineering, and Mathematics) professional look like? Not the stereotype! From math to physics and biology to chemistry, we will consider the life and work of famous **women** in STEM as we do what they did: play with rockets, explore DNA, and seek to unravel some of life's amazing mysteries.

I'm With the Band

"A course for absolute beginners who want to rock, roll or hip hop." Ms. Barham

**If you play a traditional band/orchestra instrument but have never played guitar, bass, drums or keyboards in a contemporary setting, you may take this course. You are encouraged to bring any traditional band/orchestra instrument to camp.*

Ever want to play in a modern band? Students will learn the basics of guitar, bass, keyboards, and vocals in this fun and creative setting. Genres include rock, pop, hip hop, rhythm and blues, etc. If you already play a traditional band or orchestra instrument, bring it! Today's artists are incorporating a wide variety of instruments. With the aid of technology, we can do in a few days what once took weeks or months to accomplish. Class activities include learning contemporary

songs, writing songs, recording and performing. Have fun forming groups, naming them, and creating music!

Materials provided by MSMS: Instruments, iPad©, song charts

*Students should bring any wind or string instrument they currently play. You will not be made to play it; however, it would be great to have on hand if you choose to play it.

Junkyard Jam

Counting, patterns, rhythms, fractions, volume, mass and numbers are common to science, mathematics and music. In this course, students will find connections between these subjects through fun and interactive activities. They will participate in dynamic projects that illustrate how math, science and music are linked. Using science and math, students will build instruments from junk, recyclable and found objects such as pvc basses, ukuleles, dulcimers, tubulums, drums, etc. Students will learn and perform songs on their instrument creations.

Materials used and provided: iPad©, tools, safety gear, found objects.

Junkyard Wars

Engineering meets the real-world in this class as you work in a team to solve problems using the Engineering Design Process. Materials are simple or recycled items repurposed according to your imagination and the problem at hand.

Mystery of Forensic Science

Have you ever wondered how evidence is collected to help bring criminals to justice? Does learning about different techniques and skills used by forensic scientists and crime scene investigators sound interesting to you? Join us as we perform ink chromatography, gel electrophoresis and forensic entomology to solve a few cases of our own!

No Experience Needed Coding

Looking for all students who are interested in computer programming or playing with Robots but have little to no experience. Learn how to program the Sphero Robot and challenge yourself to guide the Sphero through 5 challenging courses/obstacles.

Robotics

Robotics is the fusion of Computer Science and Engineering, and in our camp, we will give students the opportunity to experience both. The Robotics course will teach students the basics of computer programming logic while letting them build their own interactive fields and games.

Showstoppers: An Introduction to Being (Onstage)

Whether you've never been onstage before or you're totally in touch with your inner Broadway star, Showstoppers will help you acquire and refine your stage presence. The course begins with a quick look at improv and ends with the staging of student-written skits performed during Friday's closing ceremonies.

Stop-Motion Storytelling

Get creative! Stop-motion animation combines creative writing, technology, art, and music to tell stories one frame at a time. In this class, you will learn how to create stop-motion animation with 2D and 3D images. Not of a fan of drawing? Not a problem! From paper cutting to play-dough modeling, you will work in teams to meet the objective of the day.

Trading Places

In this class you will explore the trades common during the Middle Ages. *Full description coming soon.*