SESSION II AM

Adventures in 3D and Virtual Reality

Session II AM

Are you ready to design your own digital universe and make it come alive? Dive into the exciting world of 3D modeling, virtual reality spaces, and coding. Start by crafting stunning 3D models, from characters and environments to objects and animations, and bring them to life using cutting-edge VR technology. Learn the power of coding to program interactive experiences and gameplay, giving your models real functionality. Whether you're building a game, a virtual tour, or an immersive world, you'll have the chance to design, code, and explore your own creations in fully immersive virtual spaces that are limited only by your imagination. Step into the future of digital design and become a creator of worlds!
Lab Fee: $10.00
Instructor: George Yates, Middle school PE Teacher, Fulton Public Schools

Ascending Mt Everest

Session II AM

"Mount Everest is the tallest and most famous mountain in the world; a global beacon and metaphor wrapped in awe and mystery." John Branch

You are a freelance reporter and have been asked by the New York Times to record your experiences when joining a tourist adventure team that will climb Mt. Everest. During your adventure you discover many situations that cause you to ponder whether this form of tourism has a positive or negative impact on the culture and environment of Nepal and Everest. An accident on the mountain may force your thoughts to a particular side. Will your survival impact your moral and ethical judgments? Will you be able to face the consequences of your choices when or if you come back down the mountain?

Re-enact the 1996 disaster on Everest in a simulation. Make dramatic choices, risk survival, and dive into the culture that surrounds this monstrous mountain. Learn what makes this mountain so deadly through scientific experiments, STEM, and live video footage as you ascend Mt. Everest.
Instructor: Cami Webb, Teacher of Gifted, Fulton Public Schools

Chain Reaction Contraptions
Session II AM

Explore the engineering process by asking questions, planning, building, creating, and analyzing. Learn to generate multiple creative solutions to a problem as you build a wacky chain reaction machine. Create a slow-moving marble run. Build a machine that will make something happen. Connect the marble run to the contraption. Connect the contraption to another one for a multiple chain reaction. Make your machine do work in the most simple-complicated way possible. Use the principles learned to create other machines or mechanical games. Be prepared to plan, build and tinker as you create chain-reaction contraptions.
Lab Fee: $5.00
Instructor: Mark Gacia, Elementary Teacher, Hallsville Public Schools

Data Detectives 101
Session II AM

Future detectives, get ready to uncover the hidden truths all around you! Every number holds a secret, and every dataset is a puzzle waiting to be solved. Step into the role of a data detective, investigate strange patterns and reveal stories buried beneath the conspicuous. Explore mysterious trends, analyze intriguing data sets, and put clues together to resolve captivating challenges. Grab your magnifying glass—it's time to unveil the unseen!
Instructor: Rebekah Hanak, Mathematics Education Doctoral Candidate at the University of Missouri Columbia.

Fantastic Fictional Worlds
Session II AM

Have you ever wanted to fly on the back of a dragon, cast a spell, or travel to an enchanted realm? Although these feats may seem impossible, in the world of fantasy the only limits are your own imagination! Discover what it means to become a hero… or a villain. Develop mythical creatures, create magical worlds and unique characters who live there. Examine popular examples of rich fantasy world-building through literature and film. Aspiring authors and fantasy enthusiasts will have a chance to write, draw, and design creatures in a fantastic fictional world where anything can happen!
Lab Fee: $5.00
Instructor: Anna McMillen, School Counselor, Columbia Public Schools

Lego Robotics
Session II AM

Learn Lego Spike coding combined with Lego building elements. Dive into visual coding fundamentals. Build interactive projects to understand how robotics work. Use your knowledge to think critically and solve complex problems using drag and drop block coding language. Take your coding skills to the next level as you have fun creating and commanding Lego creations. For the experienced and beginning coder.
Instructor: Rachel Walk, MS Computer Science Teacher, Fulton School District

I DREAM BIG & I DO BIG!

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Let's be math rebels! Break out of that tired ole' math class box of rules while we use creativity to PLAY with some wild and crazy problems, strange stories, games, puzzles, and even infinity. The MATH never ends! Bring your ingenuity and your best hunches while we stare down challenges in logic, algebra, and probability. Rules slow us down, so none of that here. Get ready to redefine what math can be and discover the unexpected.
Instructor: Jennifer Sirois, Middle School Teacher Columbia Public Schools

Mind Games
Session II AM

The Psychology of Perception and Influence. Through fun experiments and demonstrations, explore how perception, attention, and memory play tricks on us every day. How can your senses deceive you, and why do we sometimes see things that aren't there? Dive deep into the fascinating world of psychology to understand how our minds can be easily fooled. Discover how our brains interpret—and sometimes misinterpret—the world around us. By the end of the week, have a deeper understanding of how your mind works, why it's prone to trickery, and how you can become more aware of these mental shortcuts. And, as a bonus, leave with a few simple magic tricks up your sleeve to demonstrate just how easily the mind can be deceived.
Instructor: Alex Mertzlufft Digital Media Teacher, Columbia Career Center

Shibori Cloth Dying
Session II AM

Learn Japanese fabric tie dying techniques called Shibori. During this process learn how to tie and wrap and fold fabric in new ways to create beautiful new patterns with these ancient techniques. Also learn a simple way to stencil an image onto your fabric to make an amazing work of art. We will explore color mixing, tie-dye techniques, how to make a stencil with positive and negative space to create a beautiful and unique wall hanging. Also, bring one white cotton shirt (long or short sleeve) to apply these new techniques to make something wearable!
Lab Fee: $10.00
 Instructor: Traci Bolda, HS Art Teacher, Columbia Public Schools

Whose Line is it Anyway?
Session II AM

Whose line is it anyway is a comedy show spotlighting a series of spontaneous, improvised sketches. Telling jokes and sharing comedy on stage is an art. Practice the art as you play theatre games and try improvisation. Learn secrets from some of your favorite comedians. Use your creativity to bring your personality and sense of humor to stage. Try your hand at a variety of comic styles. Practice standup, storytelling, group scenes and comic strips. No experience necessary! If you love to laugh and are willing to be wacky, this is the class for you!
Instructor: Greg Irwin, AP History, Columbia Public Schools

Wilderness Survival Challenge
Session II AM

Learn wilderness survival skills while competing as tribes as on the hit TV show Survivor! Each day, explore the creeks and wilderness of Columbia parks. Learn hands-on skills and compete in team challenges. Learn by doing as we explore the four principles of survival: shelter, fire, food, and water. Practice improvised fire-making and shelter building. Identify wild edibles, use a compass, make creek water drinkable, and much, much more!
Lab Fee: $5.00
Instructors; Jamie and Ron Danuser, Missouri School for The Deaf