



## **SESSION III AM**

### **Abnormal Psychology Session III AM**

Is a psychopath born or made? Are all psychopaths inevitably serial killers? What is it like to live with schizophrenia? How do we determine when abnormal behavior is a disorder needing treatment?

Psychology is the study of mental processes and behavior. Explore the biological and social causes of abnormal behavior through case studies of real people; and how different disorders are treated. Discuss the sad history of mental illness in our society and how those norms are changing today.

Instructor: Jonathan McFarland, HS English, Religion, and Philosophy, Columbia Public Schools

### **Broadway Bound Session III AM**

Explore musical theatre as a performance that incorporates acting, singing, and dancing. Become inspired by the music from "Frozen," "Hamilton," "The Lion King" and other well-known musicals that inspire you, hype your energy and make you laugh or even cry. Delve into various musicals as we have a blast with performing arts. Create a CK showcase of some of your favorites (and maybe even some shows new to you). Come together as the class performs various numbers from the shows of Broadway. This class is for novice or experienced performers.

Lab fee: \$5.00

### **Call Your Next Witness: Mock Trials Session III AM**

Do you know what it takes to be a lawyer? Critical thinking, persuasive skills, and careful attention to detail will help you win cases and pursue justice. In this class we will research evidence from different trials; choose a side, write testimony, and conduct our very own mock trial. Brush up on both your acting skills and knowledge of court systems as participants become expert witnesses, attorneys, or the accused. Practice oral and written persuasion, argue motions, and learn the elements of law as they relate to the case. Teams act as the jury for the other group's trial. An attorney will answer questions and help guide students in preparing the case. If you are intrigued by the Judiciary System and the law join us as we dive into a Mock Trial.

Instructor: Dr. Danielle Johnson, Columbia Public Schools, HS Speech and Debate Coordinator

## **Codebreakers and Cryptography**

### **Session III AM**

Dive into the intriguing world of "Codebreakers and Cryptography" and unlock the mysteries of codes and ciphers. This session is your gateway into the enthralling realm of cybersecurity, where mathematics intertwines with enigma. Learn to think like a spy as you solve puzzles and understand the math behind what keeps our digital world secure. Trace the history of cryptography from ancient strategies to modern digital encryption. Master various codes, including Caesar and substitution ciphers, through mathematical techniques. Explore the basics of modern encryption and discover how math protects our information. Get ready for a journey into the fascinating intersection of math, mystery, and cybersecurity!

Instructor: Rebekah Hanak, Former Data Intelligence Engineer Instructor for Marine Corps Intelligence Schools, Middle and High School Teacher, Mathematics Education Doctoral Student, University of Missouri.

## **Dungeons & Dragons & You!**

### **Session III AM**

Come brave heroes! Explore the fantasy realms of Dungeon and Dragons (D&D)! The grandfather of Role-Playing Games, D&D originated in 1971 and has grown into a cultural phenomenon, bringing players to tables around the world. D&D is a collaborative role-playing game that utilizes critical thinking, improvisation, teamwork, problem solving skills and through your shared adventure, a deep held camaraderie. Develop a character and gain prestige, power, and gold as you gain experience by completing quests, solving riddles, and defeating monsters. Choose to play a mysterious Wizard, a brawny Barbarian, or a Ranger of the woodland. Learn about the history and evolution of D&D, character creation, world building, develop a backstory, paint figures, build scale terrain pieces, create props, and of course play! The class is designed for beginners, experienced players and those curious about the game and culture. Play games in small groups with miniatures, terrain and props using the most current 5th Edition rules. Adventure awaits! Will you rise to the station of heroes of the realm? Will fates be on your side? Will your dice, wits and friends carry you through? Find the answers and become legend in the world of Dungeons & Dragons!

Lab fee: \$5.00

Instructors: Jamie and Ron Danuser, Missouri School for the Deaf

## **Fantasy-Scaped**

### **Session III AM**

When you close your eyes, what do you envision? Are you transported to a brightly colored daydream-like world? Do you envision a neon futuristic society of the sky? Is there a "pastel time period" that you wish you lived within? During "Fantasy-Scaped", work in multiple mixed materials, such as watercolor, drawing media, collage, and 3D models. Explore the art of landscapes both literal and conceptual. Dive deep into designing our own fantasy worlds within our sketchbooks, creating landscapes, locations, and identities within each unique artistic environment as we visually draw, create, and mold our fantasy worlds into existence.

Instructor: Carrie Schauwecker, High School AP Art Teacher Columbia Public Schools

## **Nuclear Chemistry**

## **Session III AM**

Looking for scholars interested in anything nuclear! Nuclear reactions, nuclear decay, nuclear energy, and nuclear reactors. The future of nuclear energy is making a turn in the world of energy, with advancements of nuclear reactors using nuclear fusion. Explore all the aspects of nuclear chemistry inside the classroom. Learn about radioactivity when it comes to the three main types of radiation and decay. Model radioactive half-lives. Make atoms visible in cloud chambers. Examine uranium ore (it is safe). Test for radiation in everyday objects with a Geiger Counter. Debate the advantages and disadvantages of nuclear energy with CK classmates. No need to have prior knowledge – we will introduce the main components of an atom before diving into nuclear chemistry.

Lab Fee \$10.00

Instructor: Michelle Holtmeyer, HS AP Chemistry Teacher, Blair Oaks Public Schools

## **Short Film Session III AM**

Lights, camera, action! Embark on an exciting journey to become a filmmaker. Learn the entire process of creating a short film, from the initial concept and scriptwriting to filming and editing. Through hands-on experiences and teamwork, bring your cinematic ideas to life. Hone your creativity and technical skills as you create a short film.

Instructor: Alex Mertzluft, HS Digital Media Teacher, Columbia Career Center

## **Team Challenge Session III AM**

Get your team to the finish line before time runs out! Make it through the Spider's Web. Experience the Trust Sequence. Challenge yourself both mentally and physically as you and your team complete obstacles that require you to work together to be successful. Develop the skills to be a strategic problem solver. Learn about teamwork and work together as you communicate effectively. Develop strong leadership skills, self-confidence, and positive risk taking. Interact with CK friends while having a blast in the Team Challenge.

Lab Fee: \$5.00

Instructor: Jon Myers, HS Dual Credit English, Columbia Public Schools

## **Take Control Session III AM**

Do you dream of broadcasting a World Series game, becoming a hotshot marketer, reporting on international news, or owning a courtroom as an attorney? It all begins with learning how to communicate effectively. Whether you're a CEO, a journalist, an artist, a doctor, an influencer, or anything in between, communication is a crucial skill that will serve you well in every aspect of life! Learn the basics of effective communication, active listening, storytelling, vocal intonation and manipulation, voice acting, on-camera presence, and public speaking. Discover the narrative arc and write compelling, emotional, and creative stories that can be turned into screenplays, advertisements, speeches, and maybe even a full-length novel! Become a master communicator and take control of any room!

Instructor: Ethan Deimeke, CK Grad, University of Missouri School of Law 2L, Esports Broadcaster

## **Technology of War Session III AM**

“War created the conditions for great advances in technology... without war men would not traverse oceans in hours, travel in space, or microwave popcorn.” ~Adrian R Lewis

In every battle and every war, there has been a sense of urgency to create and use devices that will preserve life on one side of the fight or the other. That urgency has led to the creation of many new technologies and the creative uses of many older inventions. Discuss war inventions that emerged on account of human desperation to stay safe in the trenches of WWI era. Learn about the numerous inventions that were fabricated because of the stalemate that ensued because everyone was hiding in the same trenches. Poison gas came into use in WWI, but did you know there were multiple types of poison gas and that there was a plethora of different mask types created to overcome these chemicals? And Kleenex became a household product after its initial use as a filter in some gas masks? Discover the role of tanks and their challenges as they were introduced in WWI. Join other war buffs, (and people who really enjoy cool history facts, such as M&Ms, find out about them!) as we explore and learn together about the many, many other inventions created during wars in the past 100 years, as the military has striven to be victorious and keep soldiers safe. Instructor: Angela Russell, Middle/High School History Teacher, Fulton, MO

