

SESSION III PM

Debating Philosophy in Scientific Advances Session III PM

One scientific breakthrough can save a world... or devastate it through a thousand unintended consequences! We want YOU to engage the challenges of the most pressing and cutting-edge scientific advances. In a rigorous discussion format that brings the best aspects of debate and problem-solving, tackle the unintended challenges connected to such things as: quantum computing, gene editing, facial recognition surveillance, cloning, driverless cars, artificial intelligence, living decades longer. Debate these ethical scientific and social dilemmas with your CK classmates as we struggle together through the possible practical, legal, and ethical challenges of living in the future. Prepare to challenge CK classmates in an "Ethics Bowl". Learn how to start an ethics bowl team in your school.

Instructor: Tucker Snider, AP English, Jefferson City Public Schools

Design with Digital Media Session III PM

Looking to get a little creative? In this course we will use computers to design and publish a variety of digital media -- from animations and videos to personalized websites, printable 3D objects, mobile apps, and even create our own video games! Use technology to consume media and enjoy other's creations. This course will challenge you to start creating your own projects in those same mediums. Get your hands in the "digital dirt" and start making your own creations come to life. Designing with Digital Media is the perfect place to start.

Lab Fee: \$10.00

Instructor: Josh Howard, Media Specialist, Columbia Public Schools

Don't Touch That Dial! Session III PM

Video may have killed the radio star, but podcasts are bringing radio dramas back. Come see just how powerful your voice can be in this radio drama class! We'll channel the greats of radio drama while picking the brains of local contemporaries, and of course, we'll be creating a little drama of our own with a CK radio drama! Until summer... don't touch that dial!

Instructor: Elisa Beth Bratton, Bush School, Fulton Public Schools

Droning into the Future Session III PM

The unmanned aerial vehicle AKA the DRONE is taking the world by storm! Drones are helping to push the limits of science and technology today. Explore Newton's three Laws of Motion in more depth to discover how the forces of lift, weight, thrust, and drag interact to cause drones to fly.

Should drones be allowed to fly on a college campus? Research the history of aviation with drones and debate the ethics of drone technology. Discover what it takes to be certified as a drone pilot. Using your knowledge of rotation, torque, and angular momentum design and build a drone obstacle course and then test your own drone-piloting skills! Come to class ready to drone into the future!

Lab Fee \$10.00

Instructor: Jill Roberts, Science Teacher, Blair Oaks High School

Hogwarts and the CK Cup Session III PM

Hogwarts and the CK Cup returns for a second year! Join us as we undertake an immersive and hands on exploration of Hogwarts and the lore surrounding Harry Potter. Bring the world of wizards to life through spell-play, creating relics, potions class, mythology and literature. New studies, creations and house challenges bring new twists and opportunities to the class this year. And yes, there will be Quidditch, wands, butterbeer and the second annual Chalice of Fire CK Cup tournament!

Lab fee: \$5.00

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

How We Think about Happiness Session III PM

Happiness. Isn't this what everyone wants? Aristotle called it Eudaimonia. The stoics thought it would happen if you widened your circle of empathy. According to Epicurus, it would come from maximizing pleasure. Ancient Greek philosophers had a lot to say about happiness, and a lot of thinkers and artists since then have built on those ideas, argued with them, and taken new directions. What do you think? Can philosophy help you live your best life? What role does psychology play in the search for happiness? What does current brain research reveal? If Socrates was right, and the unexamined life is not worth living, then it's high time we got down to some examination. Together with your classmates, define happiness. Debate and discuss the best ideas about how to live well. Find your mental mentors, design your own cannon, and define your happiness.

Instructor: Jonathan McFarland, AP History, Columbia Public Schools

Manipulating Watercolors Session III PM

Watercolors can get out of control sometimes. But with a little manipulation and know-how, water can be used with some control to enhance your painting. Experiment to find planned and unplanned results to enhance your art. Discover how water and paint resists, absorbs and blends to give unexpected results. Use crayon, Saran Wrap, oil, salts, sticks, plastics, and chalk to create unique watercolor art. Test what different types of paint

surfaces can do for a painting, or try water-based paint to add another layer. Make your own frames to exhibit your work at home.

Lab Fee: \$8.00

Instructor: Lynn Melton, Professional Residential Artist, Oklahoma Arts Council.

Memory Perceptions

Session III PM

Sensation, Perception, and Memory. How are we able to remember the lyrics to hundreds of songs; but struggle to know our own cell phone number? How does the world look to someone who is colorblind? Do we really perceive the world as it is; or do we miss some details? Join us as we play tricks with our brains to learn how we sense, perceive, and remember the world. Explore the limitations of your memory and practice memory games to expand your ability to remember.

Instructor: Shawna Matteson, AP Psychology and History Teacher, Columbia Public Schools

Mythologies in World Cultures

Session III PM

"History is kept alive by those who remember to tell stories down generations..."

Why do bizarrely similar epic stories occur over and over again in different cultures of the world? One probable answer is that myths answer questions about the world around us that people do not understand. For example, the Greek, Japanese and American Indigenous people all had similar myths about the rainbow being a link from the gods to humans on earth. Take a look at commonalities in the epic stories from these cultures (along with some Disney, Tolkien, and Percy Jackson). Then, create and illustrate your own mythologies of everyday happenings, divinities, heroes and monsters of the earth, heavens, and seasons. Find your storyteller within.

Instructor: Peter LaMear, Stephen's College

Psychology of Human Performance

Session III PM

"A strong mind may not win you an Olympic medal, but a weak mind will lose you one."
-Sean McCann, Ph.D.

Learn the basics of how your mind affects your performance. Apply the principles of Sport Psychology to other areas you're interested in – music, theater, public speaking, academics and athletics. Learn how to improve your attitude, reach optimal arousal, develop mental toughness, focus, confidence, self-control, goals, motivation, persistence, resilience, commitment, and "self-talk." Be the best that you can be as you discover the principles of the Psychology of Human Performance.

Instructor: Jon Myers, AP English, Columbia Public Schools

Sneak Peek—Medical Sciences

Session III PM

Health science careers include, doctor, nurse, dentist, physical therapist, physician assistant and many other skilled specialists. Health professionals apply expertise to prevent disease transmission, and diagnose, treat and rehabilitate ill patients. This is a growing science-based career field. Talk with a variety of health professionals and get your questions answered. Learn how to make a microscope slide, investigate microscopic cells, viruses and one celled creatures. Learn to take blood pressure and listen to your heart beat. Create a simulated kidney. Join this class if you are headed to the health professions or if you have biomedical questions, to get a sneak preview of the world of medical sciences.

Lab Fee: \$10.00

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

The Ally Next Door

Session III PM

Why in the world is the premiere Winston Churchill museum here on the Westminster College campus in the middle of Missouri? Visit the world quality Churchill museum to experience first-hand his life and times. Look at 20th Century world history through the eyes of Churchill and learn from his words and actions. Dive into the life and times of the former Prime Minister of Great Britain. Explore his successes and his downfalls? As a class 75 years later, answer the questions, how did Churchill impact World War II, and the world? And, why is he the Ally next door?

Instructor: Ben Schirmer, AP History Teacher, Columbia Public Schools