Week 1: June 4-8, 2018
9:00am to 3:00pm

Week 1 Morning Sessions: 9-11:45am (5)

Detective Training

Teacher: Coral Lumbley

Who stole the queen's diamond necklace? Why are there footprints leading to the bank safe but none leading away? Want to learn how to analyze clues to solve these mysteries? Taking cues from detectives like Sherlock Holmes and Nancy Drew, we will study how detective stories began and how they work. Students will put their knowledge to practical use as they study suspicious clues, use mysterious riddles to find hidden objects, and write and illustrate their own detective stories. The week will culminate with a puzzling quest for a prize-filled treasure box.

Aerospace Engineering

Teacher: Elle Wroblewski, M.S.

Challenge your creative abilities by spending the week designing and experimenting with your own wooden gliders, miniature parachutes, Alka-Seltzer rockets, and paper helicopters. Participate in design activities that teach the fundamentals of Aerospace Engineering, while also demonstrating the importance of creativity and innovation as you design. Solve orbit problems like Katherine Johnson from *Hidden Figures* with a step-by-step math workshop. Learn about how rockets were developed in China and how they are used today. Discover how jet engines work, how to collect data and run experiments as well as the history and future of air and space technology. Believe it or not, all of this in one week!

Architectural Drawing

Teacher: Lisa Evans

Learn to make dynamic architectural drawings while studying the world-class architecture on the U of I campus. This workshop will involve daily sketching trips to campus sites to enjoy the visual language of architecture plus in-classroom instruction on how to achieve realistic three-dimensional effects using perspective, value and proportion. We will explore pencil, ink and watercolor painting. Whether you want to be an architect or just learn to draw better, you'll improve your art skills while enjoying the great outdoors.

Robotics

Teachers: Albert Lee, Chloe Pollock-Muskin, Isandro Malik

Learn the basics of Robotics and Engineering. Students will work in teams to construct a robot that completes a series of challenges. Each challenge is designed to expose our students to a new facet of robotics, ranging from basic programming, to sensor usage, to structural integrity. No prior experience is required, as the class begins with a crash course on all the parts and their respective functionalities.

Girls Basketball

Teacher: Krisi Bandy

Interested in basketball but never played before? Love basketball but want to improve your skills? Come participate in a variety of drills catered to teaching the rules and fundamentals of the sport. Each day, participates will have the opportunity to improve their ball handling, shooting, and overall basketball IQ to prepare them for competition at the subbie level and beyond. Participants will also learn the importance of working as a team in order to be successful.

Week 1 Afternoon Sessions: 12:15-3pm (4)

Magical and Medieval Beasts

Teacher: Coral Lumbley

Due to high demand, Hogwarts professors have decided to offer an extension course on magical creatures to students not enrolled at their school, i.e. muggles. In this course, students will learn about the magical beasts found in *Fantastic Beasts & Where to Find Them* and the *Harry Potter* series by J.K. Rowling.* Students, then, will explore the historical and folkloric sources of the creatures they encounter as found in medieval literature, mythology, and bestiaries. Along the way, students will work on creating their own guide on magical creatures, as well as experiencing some of the highlights of Hogwarts!

*Recommended: Read *Fantastic Beasts & Where to Find Them* and *Harry Potter & the Sorcerer's Stone* before class begins.

Painting and Printmaking

Teacher: Lisa Evans

Enjoy the great outdoors by creating art inspired by the natural world. We will explore the textures, patterns and shapes we find in nature and use these observations to create prints and paintings of our own. We will also investigate how artists work with nature and will take field trips to campus resources to explore connections between nature and art.

Teamwork and Leadership

Teachers: Kristi Bandy and Karl Radnitzer

Working in groups is an essential skill every student needs to feel confident navigating. It is important to understand the different roles involved in group work and how each student can maximize his/her leadership potential. In this class, students will learn what it means to work in a group effectively, different roles each student may have in a group, and how to utilize critical thinking skills to solve problems. Students will be encouraged to push themselves out of their comfort zones and experience different leadership roles-this helps each student build perspective about each role in the group, even if it isn't their strength. Students will engage in group games/activities each day challenging their problem-solving and communication skills.

Developing Your Voice: Intro to Creative Writing

Teacher: Elissa Mullins

Do you love to write for fun? Do you hate writing? Either way, this class could be for you! Learning to write and developing a unique voice are essential skills for *everyone* to learn, no matter what you hope to do in the future. Whether you're a young artist who loves to read and write, or if you're more scientifically/mathematically inclined but would like to indulge in a creative streak, come join us! We'll read published work to generate ideas, play writing games, and have plenty of time to work both independently and collaboratively. We'll begin with creative non-fiction, and move on to poetry and fiction-but you'll be able to focus on the genre you like the most.