

2011 DISCOVERY CAMP COURSE DESCRIPTIONS

EXPLORATIONS IN ARTS

CLAY & SCULPTURE

\$ 10 Supply Fee

Age 12-16 6/13-6/16

Age 7-10 6/27-6/30

Age 10-12 7/18-7/21, 8/1/8/4

This "tactile" art for will wake the artist's senses with instruction about different types of clay while building assorted and useful objects. Students will make their own bead and create jewelry, build hand make bowls and explore three-dimensional mediums using a variety of materials, such as twigs, wire and other found objects.

POLYMER CLAY CREATIONS

\$ 10 Supply Fee

Age 7-10 6/6-6/9

Polymer clay is a soft, tantalizing material that works a lot like clay which can be molded, textured or sculpted and uses a standard oven to fire and preserve the finished piece. Share in its magical versatility while discovering some of the basic characteristic, tools and techniques for creating and adding embellishments to simple designs such as beads, jewelry and pendants. Explore the wide spectrum of colors and discover new ways to combine colors to make each project unique.

ART APPRECIATION

\$10 Supply Fee

Age 7-10 6/20-6/23, 8/1-8/4

Age 10-12 7/11-7/14

Age 12-16 7/25-7/28

Inspiration abounds! In this class students will travel through the world of creative expression and study the techniques used by famous artists. Learn some of the basic principles of design, drawing, printmaking and collage. This is not "just an ordinary art class".

CREATIVE DRAWING AND MULTI MEDIA PAINTING

\$10 Supply Fee

Ages 12-16 6/20-6/23

Practice mastering the materials and techniques of freehand drawing from observation to begin mastering concepts such as composition and lighting. Discover self-expression in new ways completing challenging assignments that help build visual problem-solving skills. Apply painting theories and techniques while combining the use of basic and advanced composition strategies, expand these drawing to create successful paintings using acrylics and other media.

ADVENTURES IN ART

\$10 Supply Fee

Age 10-12 6/27-6/30

Age 7-10 7/18-7/21

Let your creativity begin! Learn some of the basic principles of design while creating hand crafts using found objects, felt, yarn, knitting, scrap booking and card making. Students will explore the history and creation of crafts throughout time. A variety of crafts will be created and the students will also have the opportunity to embellish a finished piece with items of their creative choice.

GIRLS NIGHT OUT

\$ 10 Supply Fee

Age 7-10 6/27-6/30

Age 12-16 7/18-7/21

Age 10-12 7/25-7/28

Girls just “wanna have fun” and that’s just what you’ll have creating novelty projects like personal journals, quick tie-dye bandannas, decorating flip-flops and paint your own Chinese paper lantern. You will create your own no-sew bandanna bag and scented bath salts, learn to finger knit and make friendship bracelets on a weaving wheel. We like to play cards and dance to our favorite songs too! Bring one pair of flip-flips in your size and color of your choice. Feel just like a never-ending sleepover!!!

EXPLORATIONS IN TECHNOLOGY DIGITAL IMAGES AND PHOTOSHOP

\$ 10 Supply Fee

Age 12-16 6/6-6/9

Age 10-12 7/25-7/28

Almost all our photographs are DIGITAL these days, and the most popular tool to make those photographs look their best is PHOTOSHOP software from Adobe. The capabilities of the Photoshop program will give students uncountable ways to manipulate an image into something magical. We will learn basic skills such as cropping, removing “red eye” and balancing colors, even adding titles. We will go further with “touch-up” skills to remove unwanted blemishes and wrinkles, and even insert and remove people from the picture altogether! Want weird Uncle Harold to look like an alien? We can do that. We will also investigate the artistic possibilities that Photoshop offers to add beautiful effects to our images. Digital cameras not required, but welcome.

VIDEO PRODUCTION 101

\$ 10 Supply Fee

Age 10-12 6/13-6/16

Making a video doesn’t start with the camera, it starts with an idea. We will work together to brainstorm ideas and ways to tell a story. Then we will learn how to use the video cameras to shoot our scenes, learning techniques such as zoom and pan. Using the camera “footage” and the computer together, students will be introduced to the techniques of video editing and production, creating their own videos and adding sound, titles, credits and transitions. We will even try Stop Motion Animation, which we used to call “clay-mation” (think “Chicken Run”). When Inspiration meets Empowerment, Imagine the Possibilities! Students are encouraged to bring their own digital video cameras, if possible.

DIGITAL VIDEO PRODUCTION

\$ 10 Supply Fee

Age 12-16 7/18-7/21

Take your video skills to the next level of Digital Video Production. Emphasis is on getting the message across to the audience, whether it is a product commercial, training film, documentary or dramatic story. Few videos are shot from start to finish in one take, and students will discuss, brainstorm and practice the ways to get as much useful “film” as is needed to tell the whole story. Once they get on the computers, the story telling begins, as they will craft the video clips into complete projects, adding text, sound and transitions, such as fades and morphs. Students are encouraged to bring their own digital video cameras, if possible.

COMPUTER WIZARD

\$ 10 Supply Fee

Ages 10-12 7/18-7/21

Ages 7-10 8/1-8/4

Come and learn applications on the computer to dazzle your teachers and parents. Your family will call you the “Computer Wizard”! Learn typing, how to create art and graphic design, create a fun multi-media presentation, play age appropriate games, information about the internet, computer safety and other skills to become a fluent and successful computer user.

EXPLORATIONS IN PERSONAL AND ACADEMIC ENRICHMENT JOB SKILLS/ COLLEGE SKILLS/ COLLEGE PREPAREDNESS

\$ 5 Supply Fee

Age 12-16 7/25-7/28

Students will explore skills and work habits needed to succeed in the workplace and in college like time management, study skills, creation of resumes, cover letters, academic planning and financial planning for college. With an ever increasing need for advanced degrees this class is designed to help equip the student with knowledge

about how to plan for their future educational and career goals.

PREPARATION FOR ACT/SAT

\$ 5 Supply Fee

Age 12-16 8/1-8/4

This course prepares high school students to take the SAT and ACT test. Students will learn test strategies and clues to answering questions from both the verbal and math portions of the SAT test and the four portions of the ACT test. Verbal instruction will include methods to increase comprehension, understand the author's point of view, sentence completion and analogy questions. Vocabulary will also be emphasized during the class. Math emphasis is on analyzing the test and utilizing logic and reasoning.

EXPLORATIONS IN ENGINEERING LEGO® ENERGY AND ENGINEERING

\$ 10 Supply Fee

Age 10-14 6/13-6/16

Gearing up in pairs to build on basic concepts of engineering students are challenged to use simple mechanism principles to create more complex machines with activities designed to demonstrate the use of gear ratios, speed, pulleys, wheels and axles. Expanding on alternative uses of energy, students are further challenged to combine these engineering concepts with the use of capacitor and solar cells to discover how we can use renewable energy from sunlight, wind and water to power our lives by constructing real-life mechanisms such as windmills, waterwheels and solar collectors.

INTRODUCTION TO LEGO® ENGINEERING AND BEGINNING ROBOTICS

\$10 Supply Fee

Age 7-10 7/25-7/28

Gearing up in pairs to build on basic concepts of engineering students are challenged to use simple mechanism principles to create more complex machines with activities designed to demonstrate the use of gear ratios, speed, pulleys, wheels and axles. They will use LEGO® WeDo™ to introduce young students to basic Robotics. They will build models that use sensors, motors that will the Robotics software.

EXPLORATIONS IN READING AND WRITING CREATIVE WRITING

\$ 5 Supply Fee

Ages 7-10 6/6-6/9 and 6/20-6/23

Ages 10-12 6/27-6/30

Ages 12-16 7/11-7/14

In this young writer's workshop, students will enter a journey of selecting their topic of interest and then developing it from writing and illustration to "publishing". Get your pens ready!

MULTIMEDIA WRITING AND DRAWING

\$5 Supply Fee

Ages 12-16 7/18-7/21

Write and create your own book digitally online! Discover the process of writing a story, creating the illustrations and designing your own book layout. If you have a story or adventure to share learn the tools to help you tell it in a multimedia story telling class!

EXPLORATIONS IN WORLD CULTURES WORLD EXPLORATIONS

\$10 Supply Fee

Age 12-16 6/13-6/16, 6/20-6/23, 7/18-7/21

Age 10-12 8/1-8/4

Students will journey around the world learning about various cultures. Emphasis is developing a better understanding of cultural diversity by learning geography, languages, customs, monetary systems, art and food from around the world. Topics vary but include exposure to Spanish speaking countries as well as the vast lands of China and Asia.

EXPLORATIONS IN NATURE INCREDIBLE CREATURES

\$ 10 Supply Fee

Ages 10-12 6/6-6/9

Ages 7-10 7/25-7/28

Student will learn about the various wild and domestic creatures of the animal kingdom. Classroom experience will

include exposure to nature through science and the arts. Students will have an opportunity to learn about caring for pets, observing local wildlife and understand more about their personal trips to the zoo.

GARDENING AND NATURE

\$ 10 Supply Fee

Ages 7-10 6/20-6/23

Ages 12-16 7/11-7/14

Ages 10-12 8/1-8/4

Students will learn about the local environment and find out what grows in this climate zone and why. Finished projects include a small planting to take home and nurture. Discover why worms and bugs are an important part of the garden. Find out how to attract butterflies to your back yard. Learn about the various wild flowers in the area and how to press them into keepsakes and gifts. Class will be designed a little different for age appropriate activities and knowledge.

EXPLORATIONS IN MATH

MATH PRACTICAL

\$ 5 Supply Fee

Ages 10-12 6/6-6/9

Ages 12-16 6/13-6/16

Ages 7-10 7/18-7/21

The Practical Math sequence of courses puts the fun back into mathematics. Utilizing creative in-class exercises and practical applications of the tools of mathematics, we try to connect key quantitative skills with the real world. This class strives to help all students succeed and walk away with a positive connection to mathematics. Students will learn practical application of pre-algebra, geometry and basic business math.

DOLLARS AND SENSE

\$ 5 Supply Fee

Ages 7-10 6/27-6/30

Ages 10-12 7/11-7/14

Find out about how money works and how to stretch your allowance by creating a budget. Students will learn about money - how to earn it, save it, spend it and invest it. Students will learn about money, making change, using credit by learning how to budget in a fun way. Students will create their own business and see if they can make money by watching the stock market. Students will have a number of hands on projects as they use their creative skills to study money.

KIDS INVEST IN DOLLARS

\$ 5 Supply Fee

Ages 7-10 6/20-6/23

Ages 12-16 7/18-7/21

Ages 10-12 7/25-7/28

Discover ways to make your piggy bank grow! This class will introduce the ideas of budgeting, saving and investing money for the future. Activities will explore how to use money wisely through comparison of values of coins and dollars, math around money management, create accounts for good money management and saving for the future. For the older students they will learn about credit, specifics of savings accounts and planning for the future financially. Learn the difference between real money and plastic money.

FUN WITH FIGURES

\$ 5 Supply Fee

Ages 7-10 8/1-8/4

Discover the fun of math in our lives! Amaze your parents and friends! Math games, puzzles, brain benders and more will be explored to enliven interest in math and combine fun and function into an academic class!

EXPLORATIONS IN SCIENCE

BUBBLY & OOZY SCIENCE EXPERIMENTS

\$ 5 Supply Fee

Ages 10-12 6/6-6/9

Ages 7-10 6/13-6-16

Discover that mixing different well-known and not so well-known ingredients together will create bubbly and oozy effects with hands-on activities that allow students to explore the physical and chemical properties of various elements, compounds, and mixtures.

ADVENTURES IN SCIENCE AND BIOLOGY

\$ 5 Supply Fee

Ages 10-12 6/20-6/23

Ages 12-16 8/1-8/4

This class answers everyday questions about science and medicine. Discover how water is filtered and used in the body. Learn more about the food chain for plants, humans and animals. Students will engage in activities that broaden their understanding of everyday life that surrounds them creating an adventure in their close proximity through scientific investigations.

WONDERS OF SCIENCE-DINOSAUR DISCOVERY

\$ 5 Supply Fee

Ages 7-10 7/11-7/14

Ages 10-12 7/18-7/21

This class is an adventure simulation where students act as archaeologists joining a Dinosaur Research Project working at a fossil site and studying dinosaur history and the reason for their extinction. Many different types of dinosaurs will be discussed. Students will "extract" fossils and assemble them to create a complete Dinosaur Discovery Report.

EARTH, WIND AND FIRE

\$ 5 Supply Fee

Ages 10-12 6/27-6/30

Ages 12-16 7/25-7/28

Students will explore the science of geology, climate, weather and astronomy related events that affect our lives and our planet. Learn to track hurricanes, weather patterns, volcano eruptions and earthquakes.

EXPLORATIONS IN SPORTS AND FITNESS

FUN AND WACKY SPORTS

\$ 5 Supply Fee

Ages 7-10 6/6-6/9, 7/11-7/14

Ages 10-12 7/25-7/28

Ages 12-16 6/20-6/23

Have you ever played baseball with a tennis racket? Learn cooperation and teamwork while playing innovative and creative games. This will be a fun way to exercise! Make sure to wear tennis shoes and bring a water bottle and your imagination. Some days will be spent inside and other days outside.

FITNESS, FOOD AND FUN

\$ 5 Supply Fee

Ages 12-16 6/6-6/9

Ages 7-10 6/27-6/30, 7/18-7/21, 7/25-7/28

Join this class and learn how becoming physically fit can be fun! This course will introduce your child to the joys of physical fitness and good nutrition. They will learn proper form and technique while performing a variety of cardio and toning exercises, included in this course will be dance aerobics, indoor/outdoor activities, circuit training, and don't forget about the "yummy" snacks which contribute to a healthy lifestyle.

FUN AND FITNESS WITH YOGA

\$ 5 Supply Fee

Ages 10-12 6/20-6/23

Ages 12-16 6/27-6/30

Join this class and learn how becoming physically fit with yoga can be fun! This course will introduce your child to the joys of yoga and good nutrition. They will learn proper form and technique while performing the art of yoga. Included in the course will be an introduction to yoga poses, yoga philosophy and sound nutrition.

ARE YOU A TEAM PLAYER?

\$ 5 Supply Fee

Ages 7-10 6/13-6/16

Of course you are! Come and play team sports with your new and old friends! A variety of different games will be played throughout the week and we'll have so much fun together!

INTENSIVE CAMP PROGRAMS

THEATRE INTENSIVE

Ages 12-16 7/25-8/4

Young thespians will experience an introduction to the art of character development in the fast-paced and

challenging atmosphere orchestrated by highly imaginative and skilled educators. This intensive week of training embarks on an exciting journey exploring classes in voice and diction, movement, basic and advanced acting techniques, monologues, duets. Insight into auditions, stage combat, and variety of stimulating improvisational exercises that will serve as a springboard for young actors, who wish to pursue theatrical endeavors, enjoy observing “real deal” auditions performed by guest professional actors, guest mime performances and stage combat choreographers. Break a Leg!!!

ROBOCAMP

Ages 10-14 7/11-7/21

With modern technology turning more to the use of robots, it is only timely that this program should introduce our students to robotics concepts through teamwork and problem solving challenges. With the help of LEGO teach challenge kits, students will simulate real life robotics and robotics systems while learning simple engineering loops and conditionals, in theme related concepts, using timing, loops and conditionals. RoboCamp leads teams through exercises, projects and challenges while learning that process and problem solving become integral parts of the curriculum.

ROBOCAMP ADVANCED

Ages 10-14 7/25-8/4

Students with previous experience with LEGO robotics gain hands on experience in advanced engineering, computer programming principles and advanced applications of sensors, motors and gears, as they are challenged to design, build, program and test autonomous robots using the new LEGO NXT Robot. Students registering for this class must have knowledge and application of ROBOLAB or NXTG programming sensors and gears and should be able to write a program using the ROBOLAB or NXTG software.

TECHNOLOGY INTENSIVE WORKSHOP (Technology I and Technology II on schedule)

Ages 12-16 6/20-6/30

Participant will work with high-level computer applications focusing on visual communications encompassing digital imaging, video editing, and game design and web applications.

FENCING INTENSIVE WORKSHOP

Ages 10-16 6/20-6/30

Thrust your way into this exciting and challenging sport of intelligence and skill while mastering the art of swordsmanship under the instruction of a professional fencing master. In this two- week intensive lunge into the fundamentals of balance, footwork, body movement and blade training. Within a few days, campers begin to spar, crossing foils with peers, while building team work and problem solving skills as well as physical, social and mental confidence. Demonstrate your new swordsmanship and empowerment while participating in a small tournament on the last day.

ANIMAL ENCOUNTERS

Ages 7-10 7/11-7/21

Go Wild! Students will explore the natural world and discover that there are animals all around us even in the places we least expect them! Learn about the power that plants and animals have on us in our daily lives, about the survival skills of animals and their amazing adaptations to the environments around them. Working individually and in teams students will take part in hands on experiments and investigate the mysteries of the animals around us!

\$20 Fee Supply

