

## Spring Super Saturday Courses 2014

### PreK-K

#### ***ICKY, STICKY, AND FUN***

Have you ever wondered what makes your pancakes fluffy? There are messes to be made and things to explore. Only the most curious minds are needed in this laboratory. Come to this class and become the world's most creative chemist or inventor of the gooiest gunk ever glopped!

#### ***SPACE RACE: Exploring the Solar System***

As cooperative Space Exploration Teams travel to each Solar Stop, students research the locations (planets, asteroids, comets, and meteors), write about them in their Space Explorer's Log, read stories and complete a variety of interactive activities. With the help of various references, they gather galactic facts and complete activities cooperatively and individually.

#### ***ZOO***

Zooland might close because it is outdated, the animals are poorly treated, and attendance is declining. Students make a model zoo, and then learn about animals, zoo operations, and animal care. They modernize and improve the zoo to save it, finding community sponsors to help pay for the renovation. The grand opening of Zooland is complete with habitat displays and large cardboard animals.

### Grades 1-2

#### ***KITCHEN CHEMISTRY***

Your kitchen is one big chemistry lab! Explore colors, solids, liquids, gases, polymers, chemical reactions, mixtures, solutions, and more. Use your new kitchen chemistry knowledge to create snacks that go along with the lesson of the day. Learn how chemistry is alive in your own home! (Supply Fee: \$5)

#### ***INVITATION TO INVENT***

Have you ever wondered how scientists and inventors work? What do you need to do to be an inventor? *Invitation to Invent* engages students in investigations and observations that support their learning about simple machines and their uses. Students explore force, motion, and friction as they learn about the six simple machines and how they can invent compound machines.

#### ***TIME TRAVEL***

Do you know how the city of Lafayette was named or why? Do you know who Tecumseh was? Did you know that Native Americans once roamed the same grounds where your school or home is built? If you are curious about any of these things, then you should travel through time with this class. We will board our magic Purdue bus and travel backward through time to a Native American Village, and to the War of 1812. Maybe we will meet a ghost or two! All Aboard!

### Grades 3-4

#### ***VET MED***

Discover your inner veterinarian. Learn all about animal anatomy and physiology with dissection and other exciting hands-on activities. Explore the veterinary needs of animals of all shapes and sizes. (Supply Fee \$10)

### ***ROLLER COASTER: The Science of Motion***

Transform your students into scientific sleuths with a simulated amusement park mystery. Students use the discoveries of Galileo, Newton, and more to solve the perplexing problems of Roller Coaster World's rides. Finding contextual clues, forming hypotheses, performing experiments, and making conclusions are all part of the fun of figuring out the park's puzzling problems.

### ***HOUSE DESIGN***

From mansions to townhouses, architecture is in the works! Students build an understanding of the problems and pleasures of designing a house by learning the different types and necessary elements of house design, the correlation between income and mortgage eligibility, and the costs of house construction and home furnishings. Some of the activities include evaluating the pros and cons of building single-family homes, calculating the number of square feet in a given area, and designing and drawing specific floor plans.

### ***ENVIRONMENT MATTERS***

Going green is cool! Students will explore the relationships found between people in a community, the relationship between humans and the environment. With an emphasis on environment protection, this eco-friendly class proves that trash is not just for the recycling bin. Students will learn about recycling and reusing has never been this fun!

Grades 5-8

### ***RUBE GOLDBERGINEERING***

Have you ever seen a Rube Goldberg design? Come join a design team to brainstorm and build creative contraptions to solve everyday problems in a complex way like how to use a hammer, a pulley, and twelve rubber bands to put toothpaste on a toothbrush. Use hands-on activities to focus on science, technology, and engineering concepts!

### ***ENGINEERING EXPEDITIONS***

Learn what it means to be an engineer! Join us as we explore the different realms of engineering. From building bridges to lighting light bulbs, we will work our way through the different engineering specialties such as chemical, mechanical, and electrical engineering in a fun, creative, and problem solving manner.

### ***COMPUTER PROGRAMMING***

Explore the hidden world within your computer. Investigate current, circuits, components, as well as software programming, and how software interacts with this hardware!

### ***PAINTER'S STUDIO***

Explore different painting techniques, color mixing, and approaches to composition and even compose your own painting. Design your own canvas and use this canvas as you practice the various "building blocks" and principles of art.