

# Project '18

## Unique summer challenges for advanced learners!

### Classes

Defy the Logic of Science!  
How to Lie with Statistics (Gr. 5-7; a.m. only)  
How to Lie with Statistics (or Bamboozling Others with Numbers) (Gr. 8-12; a.m. only)  
Introduction to Improv  
Just Like Photoshop 1! Graphic Design for Beginners  
Just Like Photoshop 2!! Graphic Design for Intermediates  
Makerspace Missions  
Making It with Makey Makey (Gr. 5-8)  
Mock Trial  
Music Recording in a Home Studio  
OpenBuilds and CAD:

- 3D Printers
- CNC Machines
- Laser Cutters

Science Filmmaking  
Sketch Comedy Writing (p.m. only)  
Speak Your Mind! The Art of Public and Persuasive Speaking  
Stage Combat and Fight Choreography  
Toy Studio  
Writing for Publication (a.m. only)

### Workshops

Adventures in Drawing and Design  
Fashion Design: Making a Model (Gr. 5-8; p.m. only)  
Fashion Design: Unconventional Challenges (Gr. 8-12; a.m. only)  
Historic Games of Strategy and Diplomacy (p.m. only)  
World War II: Midway, Guadalcanal and North Africa (a.m. only)

**July 9 - 27 ■ Grades 5 - 12**

**Elmhurst College**  
**190 S. Prospect Avenue, Elmhurst**

*Conveniently located at the junction of three expressways and two blocks from the Elmhurst Metra station.*

Full Days: 9:00-3:00  
Mornings: 9:00-11:40  
Afternoons: 12:20-3:00  
Extended Care: 7:30-9:00 and 3:00-6:00  
Open House: July 27, 7:00-9:00 p.m.

***Free transportation from select locations!***

**Program Details**

**Transportation Options**

**Driving Directions**

**Metra Schedule**



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Joan Franklin Smutny, Founder and Director



## Classes

**Defy the Logic of Science:** Are you a chemistry connoisseur? A physical science aficionado? Or perhaps a mad scientist in training? Then this is the course for you! Come explore the science behind such discrepant events as fire bubbles, vanishing packing peanuts, exploding toothpaste, floating bowling balls, and fire proof balloons! Perform daily experiments that defy logic, challenge your curiosity, and make you rethink what you thought you knew about chemistry, physics, and engineering. (\$15 lab fee) *Mike Gorelick*

**How to Lie with Statistics:** Is the latest video game really everyone's favorite? Who says? Can they prove it? Examine statistics in advertising and other media. Create your own 'product' – such as string art – and convince others to buy it with real statistics you gathered. (Gr. 5-7; a.m. only) *Carol Fisher*

**How to Lie with Statistics (or Bamboozling Others with Numbers):** Analyze statistics presented in everyday life through the media. Compare various types of data analysis. Conduct your own research – perhaps on the height of stick bomb explosions – and convince others with real statistics that you gathered. (Gr. 8-12; a.m. only) *Carol Fisher*

**Introduction to Improv:** Working with a professional actor, who performs with and teaches at Second City, learn the foundational elements of improvisational theater, an art form with wide reaching applications. Cover the basic building blocks of improv, from agreement to character creation, with an added focus on the relationship of the scene and character point of view. Students need only bring themselves and a desire to play. *Micah Philbrook*

**Just Like Photoshop 1! Graphic Design for Beginners:** Create digital art, lost dog or movie posters, cartoon characters, greeting cards, and more! Place heads of famous people on bodies of animals, make a poster of a fake sequel to your favorite movie, enter the design and print your own t-shirt contest, become a digital Picasso or Monet, come up with new and improved logos. Almost all digital art begins with graphic design, and uses it a lot (Web Design, Animation, Game Design, Engineering, Industrial Design, Fashion Design). Graphic design software is the most useful computer tool a child can learn. We use GIMP, the best free software that does everything Photoshop can. Same tools, same techniques, same great fun! *Artyzen Pak*



**Just Like Photoshop 2!! Graphic Design for Intermediates:** If you already learned some of the basics of GIMP or Photoshop software, then it's time to take your skills and imagination to the next level! Go deeper into your creative soul, aim higher into what you can design and achieve. Expand your mind with new styles and techniques that will allow you to design products and things that you can sell, inspire, and share with the world. Be the creator of a new fantasy world character or fun animation show. Enter our t-shirt contest and have your idea printed out. Someone have an idea for a new product? Well, you be the designer. Edit family photos where someone did not look right. Aliens abducting someone? Who knows, but you will create an impossible scene and make it look very realistic. For a final project, design all aspects of a DVD from the front and back covers to the circular design of the DVD itself to the interface of the DVD when opened in a DVD player. *Artyzen Pak*

**Makerspace Missions:** Each day, receive a STEAM-related mission to complete. Employ creativity, critical thinking, and collaboration to accomplish each task. Sample missions might include: Program a Sphero to complete in a designated time a maze you've designed; Use an iPad to create and edit a documentary of Project 18; Design and build a freestanding structure that is the tallest, sturdiest, bears the most weight . . . using given supplies. *Sara Garner and Lisa Zink*

**Making It with Makey Makey:** Want to makey makey something funtastic and edutaining? Learn Scratch game and animation coding to explore new possibilities with the Makey Makey. What are some projects you can make in this course?

- Drum Kit and Food Piano
- Control Pad for a Video Game
- Wire Game
- Whack a Mole (or any creature)
- Operation or Surgeon Game
- Security Camera Activation
- Dance Dance Revolution
- 2 Player Sword Game

(Gr. 5-8; \$20 lab fee) *Artyzen Pak*

**Mock Trial:** Taught by an attorney, discover and understand the workings of our justice system. Take on the role of judge, juror, lawyer, plaintiff, defendant, or witness. Work with your peers to create and stage courtroom dramas. *Janette Forman*

**Music Recording in a Home Studio:** Are you interested in writing and recording your own music? Work with a small group to write, record, and mix songs. All musical talent is invited, from vocals to strings to percussion, from composing to rearranging. We will use software to record, create, edit, and automate tracks. Learn the basics of setting up microphones and testing levels for optimum recording. Produce your own sounds and songs! *Nick Dykert*

### OpenBuilds and CAD:

- 3D Printers
- CNC Machines
- Laser Cutters

Work with a small team to build a 3D printer, CNC machine, or laser cutter from scratch. Use open-source CAD software to design your own printable items and control the machines. Learn how to calibrate, align, and troubleshoot the machines for common issues. (Select one, two, or all three courses; \$20 lab fee per course) *Nick Dykert*

**Science Filmmaking:** Do you love Cosmos, Mythbusters, 30 for 30, or YouTube videos? Do you have a passion for science? Science, wildlife and environmental films have the power to transform the way we think about the world. Join us to make an inspirational film to tell your story. We will be exploring your choice of science concepts and will collaborate to plan out the story, edit, and create your film. *Sara Tsoiles*

**Sketch Comedy Writing:** Learn from a professional actor, sketch comedy writer, and director, how to write and perform the way they do on *Saturday Night Live*, *Key and Peele*, *Monty Python* and so many more amazing shows. We'll range from good basic writing habits to advanced sketch comedy structures, all while building the most important part of any stage performance: the ensemble. At the end we'll perform the work we wrote for an audience of friends and family. (p.m. only) *Tim Soszko*

**Speak Your Mind! The Art of Public and Persuasive Speaking:** Learn how to address an audience effectively, whether you are presenting in class, arguing with friends, or trying to convince your parents! Taught by an attorney, this class will cover giving prepared and impromptu speeches, incorporating props and Powerpoint slides, using humor and quotations, the power of body language, and introduce principles of debate. Learn what to do and what not to do when speaking to an audience, whether the audience is one person or a crowd of thousands. Participate in a tongue twister contest, speech charades, and many other fun activities! *Janette Forman*





## Workshops

### Stage Combat and Fight Choreography:

Physical control on stage is necessary in any performance. When you leave this class you will have a great foundation for safe use of stage combat techniques like punching, kicking, falls, rolls, and sword fighting. The class will culminate with a presentation of our skills in a fully choreographed fight during the Project Open House.

Tim Soszko

### Toy Studio:

Do you love making up games? Do you wish you could alter or design new toys? Toy studio is the perfect place to do that. Start with product testing and find some of the commonalities our favorite toys have. Design and prototype new toy concepts, create a marketing plan and explore the patent world, so you know how to protect your intellectual property. Sara Tsoles

**Writing for Publication:** Do you enjoy writing and then seeing it published? What genre do you enjoy the most? Poetry, stories, fantasy fiction, biographical fiction, historical fiction? Would you enjoy seeing yourself in print in a publication put out by the students in the class? Come, write creatively and skillfully. Be published. (a.m. only)

Joan Franklin Smutny and Gail Arnold

**Adventures in Drawing and Design:** Draw from observation, imagination and inspiration! Explore drawing techniques while investigating a variety of media from the traditional to the bizarre. Elements of design will be combined with drawing skills to maximize the aesthetics of artistic experimentations. This is the drawing class for the artistically adventurous! *Christie White*

**Fashion Design: Making a Model:** When designers have to dress one another, the results can be pretty incredible! This introductory course gives students the chance to learn pattern drafting, clothing, construction, and participate as models in their own runway show the at the Project Open House! (Intro to Fashion Design; gr. 5-8; p.m. only) *Jamie Kendall*

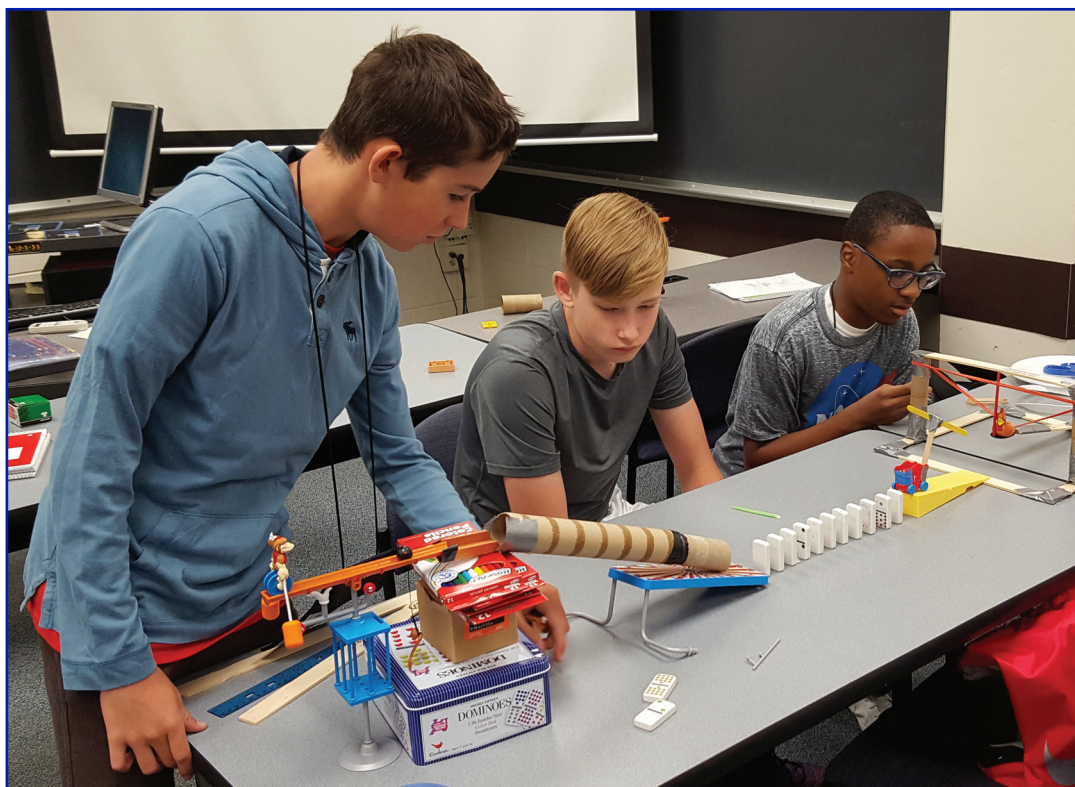
**Fashion Design: Unconventional Challenges:** On the Lifetime program Project Runway, the "Unconventional Challenges" are often the sources of the best creativity and inventiveness. Students in this advanced class will build on knowledge learned from previous experience to work with materials such as candy, metal, flowers, and hardware to make their designs take flight! (Advanced Fashion Design; gr. 8-12; a.m. only) *Jamie Kendall*

### Historic Games of Strategy and

**Diplomacy:** Re-enact history through games of strategy! Choose from games covering a variety of time periods and locations. Expand empires through 4000 years of *History of the World*, smite thine enemies in *Ancient Conquest*, invade *Britannia*, crown your pretender in *Kingmaker*, colonize exotic lands during the *Age of Imperialism*, lay iron track across the prairie in *Empire Builder*, make the world safe for democracy in *Diplomacy*, and fight World War II in *Axis and Allies*. (p.m. only) *Christopher Freeman and Dale Ridder*

### World War II: Midway, Guadalcanal, and North Africa:

The Allies strike back with the Doolittle Raid, the Battle of Midway, the occupation of Guadalcanal, and the invasion of North Africa. The class will include actual war stories, military film footage, and a large map of the world on which the major decisions of the war will be re-enacted by moving pieces on the map accordingly. (a.m. only) *Christopher Freeman and Dale Ridder*



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