

2018 Summer Wonders in Joliet

Unique summer challenges for advanced learners!

Session I: July 16 - 20

INNOVATION CREATION LAB

For students entering grades 1-8

- Engineering challenges
- Robotic explorations
- Science experiments
- Artistic endeavors

Create, design, construct, discover!



Click here to APPLY NOW!

Session II: August 6 - 10

Course offerings for students entering grades K-8

- Art Unlimited (K-8)
- Bibliomania: Create Your Own Book (K-2)
- Chemistry Lab (4-8)
- Coding with Scratch (3-8)
- Creative Writing (3-8)
- Lego Mindstorms Robotics (3-8)
- Lego WeDo Robotics (K-4)
- Let's Build a City! (K-4)
- Magnificent Measurements (K-2)
- Make with Makey Makey! (3-8)
- Math Strategies and Problem Solving (3-8)
- Slime, Flubber, and Other Fun Polymers (K-5)
- Solder and Build: Electronics Lab (5-8)

For students entering grades PK-K

Morning: Soaking Up Science

Afternoon: World Class Explorers



Ingenuity. Inspiration. Imagination. Innovation.

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Joan Franklin Smutny, Founder and Director



Course Descriptions

Session I
July 16-20

For students entering grades 1-8

Innovation Creation Lab:

What inspires you to create? Do you like to design, construct, hammer, sew, paint, or experiment? Do you like robotics or computer programming? Learn new skills and sharpen your current ones. Bring your imagination and ideas or just come and be inspired by the abundance of materials and resources provided. Explore new activities or tackle new projects each day or choose to pursue a topic in depth for several days as you thrive in the freedom to discover, explore, and experiment!

All students will enjoy hands-on, student-centered discovery. Activities, builds, and creations will be student led, facilitated by expert, creative teachers, who will introduce several new options each morning and each afternoon. According to their activity choices, students may move among different classrooms, among different activities within the same classroom, or focus in depth on a single project. They may choose to work with other students or individually, alongside their age and/or interest peers. (\$20 lab fee)

Session II
August 6 - 10

For students entering grades K-8

All courses below are offered both mornings and afternoons. Students enjoy two 80-minute classes each half day, selecting their favorites from among the course offerings. Note that for courses spanning several grade levels, students are scheduled with their age peers.

Art Unlimited: Does art ignite creativity in you? Create your own masterpieces using a variety of media and methods. Express your muse and the joy of being an artist! (K-8)

Bibliomania: Create Your Own Book! You're the author, illustrator, and publisher! Transform your creative ideas and vivid imagination into stories and illustrations for your own literary masterpieces. (K-2)

**Additional details and
online application at
www.centerforgifted.org**

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University of St. Francis, 500 North Wilcox St., Joliet

Full Day: 9:00-3:00
Morning: 9:00-11:40
Afternoon: 12:20-3:00
Extended Care: 8:00-9:00 and 3:00-5:00

Tuition (per week):
Full Day \$430
AM or PM Only \$215
Extended Care: \$9/hr

Processing fee per program: \$4 Lab fees: As indicated in course descriptions

Chemistry Lab: Explore chemical properties through hands-on experiments. Investigate molecular structure. Experiment with solutions, solvents, and reactants, but don't blow up the lab.

Coding with Scratch: Learn the basics of coding with Scratch, a free and easy-to-use coding language developed at MIT. Learn how to assemble lines of code and work towards creating your own project. (*Free Scratch account required. We will register accounts on the first day. Visit scratch.mit.edu for more information.*) (3-8; \$10 lab fee)

Creative Writing: Do you like to originate ideas, create characters, design plots, and express yourself through writing stories and poems? Be inspired by various catalysts, such as posters, paintings, books, music, and discussions, to write and share your creativity. (3-8)

Lego Mindstorms Robotics: Create and engineer computerized robots. Employ gears, sensors, motors and various parts to make them faster, smarter, trickier, etc. Work in engineering teams to innovate and experiment. (3-8; \$15 lab fee)

Lego WeDo Robotics: Build robots such as monkeys, alligators, and birds. Work from our building plans or create your own robots. Program actions and sounds. (K-4; \$15 lab fee)

Let's Build a City! Explore a variety of cities and imagine how you would like yours to be. Then, create! Map out your city, design parks, shopping districts, skyscrapers, and houses, and build models. Combine engineering, math, literature, and innovation! (K-4)

Magnificent Measurements: Experiment with balance scales and spring scales, graduated cylinders and measuring cups. Delight in discovering the math and science of exploring sizes, shapes, weights, and measures in the world around you! (K-2)

Make with Makey Makey! Use cardboard, wire and other household materials to make game controllers, instruments and other fun projects using Scratch and Makey Makey Boards. (*Free Scratch account required. We will register accounts on the first day. Visit scratch.mit.edu and makeymakey.com for more information.*) (3-8; \$15 lab fee)

Math Strategies and Problem Solving:

Discover the power of logical reasoning via math games, puzzles, and patterns. Investigate winning tactics and explore your own variations. Equip yourself with useful strategies that will come in handy far beyond the classroom. (3-8)

Slime, Flubber, and Other Fun Polymers:

Experiment with different ways of making slime. Create other slippery, stretchy polymers in the slime family. How far can you stretch a polymer? How thin can it become? Explore the possibilities as you play with your polymers! (K-5)

Solder and Build: Electronics Lab: Construct a variety of electronic projects and robots, from photophobic micro-bugs to water alarms. (5-8; \$30 lab fee)

For students entering grades PK-K

Students enjoy a 160-minute interdisciplinary classroom experience each half day.

Soaking Up Science: Swish, squish, and splash as you experiment with everyday items and explore the world around you. Science is everywhere and always! In your backyard and on the playground, during a thunderstorm and at the beach—the possibilities are endless! (*Morning only*)

World Class Explorers: Climb a volcano, stare down a kangaroo, cruise the Danube River, go on an African safari, scale the Great Wall of China, and ride the flow with penguins. Embark on an intercontinental expedition! (*Afternoon only*)



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