

### Project Director and Instructor

Jon Davey, the project director for the Kid Architecture and LEGO® Camps, is starting his 41<sup>st</sup> year of design teaching. He has experience at the School of Architecture-University of Wisconsin and at the SIU Architecture Studies and Interior Design programs. As a teacher of architecture and design, he has been awarded department Teacher of the Year five times, college Teacher of the Year twice, Distinguished Faculty Award twice and college Scholar of the Year. Davey has a special concern with inspiring young people to be creative and have fun while learning. To contact Davey, call 618/453-3734 for, fax 618/453-1129, cell phone 618/559-8931 or email [jdavey@siu.edu](mailto:jdavey@siu.edu).

Davey will be assisted by other instructors and assistants this summer. He will not be the instructor for all sessions.

### LEGO Learning Institute Research

“Defining Systematic Creativity” (excerpt)

By Edith Ackermann, David Gauntlet and Cecilia Weckstrom

Godtfred Kirk Kristiansen, the founding father of the LEGO® System of Play, believed that children should not be offered ready-made solutions, instead they needed something different that would strengthen their imagination and creativity. He devised the notion that a range of toys should fit together to form a system, in order to create a toy with value for life.

Over 50 years later, the LEGO® brick has become part of popular consciousness, an indelible part of the childhood memories of many people the world over and a symbol for the exuberant optimism of children to imagine what could be and to create that vision with their own hands. Despite its near ubiquity as a symbol for creativity, little insight previously existed as to just why an open-ended system like the LEGO® brick is such a powerful tool for creativity. Creativity is the ability to generate ideas and artifacts that are new, surprising and valuable. When children make things (build and create), when they make things up (imagine and fantasies) and when they play make believe (doing ‘as if’ and pretending) they harness curiosity and playfulness into three different kinds of creativity: combination, exploration and transformation. It is possible for individuals to engage their creativity systematically by cultivating the relevant mindsets behind the creative process:

- Curiosity - triggers our imagination
- Mental readiness - fuels our imagination
- Confidence - allows us to experiment with our imagination
- Positive framing - helps us see where our imagination can be useful
- Commitment - makes us willing to persevere in shaping our imagination into something new, surprising and valuable

SOUTHERN ILLINOIS UNIVERSITY  
**SIU** CONFERENCE AND  
CARBONDALE SCHEDULING SERVICES

# LEGO® Camps 2022



Sessions 1, 2, 3 & 4 – June 6-10

Sessions 5, 6, 7 & 8 – June 13-17

Sessions 9, 10, 11 & 12 – June 21-24

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Name: \_\_\_\_\_ Email: \_\_\_\_\_

Address: \_\_\_\_\_ Male Female Birthday: \_\_\_\_/\_\_\_\_/\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Day Phone: (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Evening Phone: (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ Cell Phone: (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Please enroll me in:

**Beginning Engineering LEGO – Grades 1 and 2**

Session 3 June 6-10 8:30-noon

Session 7 June 13-17 8:30-noon

Session 11 June 21-24 8:30-noon

**Advanced Engineering LEGO – Grades 3-5**

Session 4 June 6-10 1-4:30

Session 8 June 13-17 1-4:30

Session 12 June 21-24 1-4:30

**WeDo Robotic Engineering LEGOs – Grades 3-5**

Session 2 June 6-10 1-4:30

Session 6 June 13-17 1-4:30

Session 10 June 21-24 1-4:30

**Mindstorms LEGOs – Ages 10+**

Session 1 June 6-10 8:30-noon

Session 5 June 13-17 8:30-noon

Session 9 June 21-24 8:30-noon

**NEW for 2022:** Families enrolling more than one child will receive a \$25 discount on additional registrations for siblings. Please contact our office to register multiple siblings or mail/fax registrations together and note the discount request. This discount is for LEGO camps only.

Camp Prices

Camps 2, 3, 4, 6, 7 & 8 are \$150

Camps 10, 11 & 12 are \$120

Camps 1 & 5 are \$175

Camp 9 is \$140

**Make Checks payable to SIU** Total Amount Enclosed: \_\_\_\_\_

If paying by credit card, please fill out the following:

Account # \_\_\_\_\_ Exp. Date: \_\_\_\_\_

CVC Code \_\_\_\_\_

Name on Card (Print) \_\_\_\_\_

Mailing Address \_\_\_\_\_

Payer email \_\_\_\_\_

A medical release form is required for camp participation and must be received in our office at least three business days prior to camp beginning. Visit [conferenceservices.siu.edu](http://conferenceservices.siu.edu) to download the form, or call 618/536-7751 to request a form by mail.

**Return to: LEGO® Camp**  
 Conference and Scheduling Services  
 Mail Code 6705  
 Southern Illinois University  
 1255 Lincoln Drive  
 Carbondale, IL 62901  
 Phone: 618/536-7751  
 Fax: 618/453-5680

**Beginning Engineering LEGO® Camp**  
 Camp projects will include basic LEGO® construction, level and catapult, car, pulley, conveyor, gears, gears with belts, simple crane, and gears with chains, motorized gears, motorized turnstile and motorized car construction. There will also be a take-home project as well as challenging creative time. For children in first and second grades.  
 Registration fee: \$150

**Advanced Engineering LEGO® Camp**  
 Camp projects will include street cleaner, disc car, hand-held crane, mechanical hammer, disc speedster, balance, balance with dial, windmill, sail car, motorized go-kart, motorized rail, motorized walking stick, motorized dog, motorized crane, weighted crane, motorized dragster, mobile crane, tow truck, helicopter and airplane. There will also be a take-home project as well as challenging creative time. New projects will explore renewable energy sources; investigate energy supply, transfer, accumulation, conversation and consumption; and use measurements and data analysis to describe and explain outcomes through hands-on activities there will also be a take-home project as well as challenging creative time. For children in third grade and up.  
 Registration fee: \$150

**LEGO® Mindstorms Camp**  
 Mindstorms is software and hardware to create, customize, programmable robot. They include an intelligent brick computer that controls the system, a set of modular sensors and motors, and LEGO® parts from the Technic line to create the mechanical systems. The hardware and software roots of the Mindstorms Robotics Invention System kit go back to the programmable brick created at the MIT Media Lab. This brick was programmed in Brick Logo.  
 Registration fee: \$175

**LEGO® WeDo Robotics Engineering Camp**  
 Students will be involved in creating engaging learning experiences in science, literacy, math and social studies. Using the LEGO® education WeDo hardware and software in combination with these activities will inspire critical thinking, problem solving and creativity. Activities cover the “Wild Animals” theme models Hungry Alligator, Flying Bird and Roaring Lion. Included are mathematics, literacy, and science and social studies activities for each model. New robotic projects will include a Ferris wheel, crain, car and house. There will also be take-home project as well as challenging creative time. For children in third grade and up.  
 Registration fee: \$150

**Important Information**

- Registration will begin 15 minutes prior to each camp beginning.
- The LEGO® kits are reused by the other camps. Your child will not take them home at the end of the camp session.
- A refund, minus a \$15 deposit, will be issued if cancellation is received three weeks before the start of camp.
- Campers are to be picked up and signed out at the studio promptly at the conclusion of each camp daily.
- Collaboration design is enhanced by campers working in teams of two.

**Campers will receive:**

- Excellent faculty delivery
- Quality curriculum
- A LEGO® small project kit and final project to take home on Friday

To register, call 618/536-7751 or log on to [conferenceservices.siu.edu](http://conferenceservices.siu.edu)