LEGO® Camps

2019

Sessions 1, 2, 3 & 4 – June 3-7
Sessions 5, 6, 7 & 8 – June 10-14
Sessions 9, 10, 11 & 12 – June 17-21
Sessions 13, 14, 15 & 16 – June 24-28
Sessions 17, 18, 19 & 20 – July 8-12
Sessions 21, 22, 23 & 244 – July 15-19

Project Director and Instructor
Jon Davey, the project director for the Kid Architecture and LEGO® Camps, is starting his 38th 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. 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

Godfred 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 preserve in shaping our imagination into something new, surprising and valuable
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: $99

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: $99

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
• Daily snack breaks
• 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

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: $150

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 3-7 8:30-noon
□ Session 7 June 10-14 8:30-noon
□ Session 11 June 17-21 8:30-noon
□ Session 15 June 24-28 8:30-noon
□ Session 19 July 8-12 8:30-noon
□ Session 23 July 15-19 8:30-noon

Advanced Engineering LEGO® – Grades 3-5
□ Session 4 June 3-7 1:40-3:30
□ Session 8 June 10-14 1:40-3:30
□ Session 12 June 17-21 1:40-3:30
□ Session 16 June 24-28 1:40-3:30
□ Session 20 July 8-12 1:40-3:30
□ Session 24 July 15-19 1:40-3:30

Advanced Engineering LEGO® Camp – Grades 3-5
□ Session 10 June 17-21 1:40-3:30
□ Session 14 June 24-28 1:40-3:30

Mindstorms LEGO® Camp
□ Session 1 June 3-7 8:30-noon
□ Session 2 June 3-7 1:40-3:30
□ Session 5 June 10-14 8:30-noon
□ Session 6 June 10-14 1:40-3:30
□ Session 9 June 17-21 8:30-noon
□ Session 13 June 24-28 8:30-noon
□ Session 17 July 8-12 8:30-noon
□ Session 18 July 8-12 1:40-3:30
□ Session 21 July 15-19 8:30-noon
□ Session 22 July 15-19 1:40-3:30

Make Checks payable to SIU  Total Amount Enclosed: __________________________
If paying by credit card, please fill out the following:
Account # __________________ Exp. Date: __/___/___
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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 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

LEGO® Mindstorms Camp
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LEGOL® 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, crane, 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: $99