

# LabSpace Sept/Oct Schedule 2019



(573) 645-0800

Register at [www.LabSpaceRobotics.com](http://www.LabSpaceRobotics.com)

[LabSpaceRobotics@gmail.com](mailto:LabSpaceRobotics@gmail.com)

## Engineering Lab

Learn to wire a circuit, build and explore with cardboard, string, recyclables and more. Each class we'll work on a different project to take home. Some possible projects are: cranes, pop guns, slide whistles, center of balance toys and more. Ages 8+ Tuition: \$50 for four sixty-minute classes.

Thur 4:00-5:00 9/12-10/3

Fri 5:00-6:00 9/13-10/4

## Digital Arts with Rick Rother

LabSpace is excited to have Rick Rother back to present more of his Digital Arts Classes for students ages 9+. Students will be given firsthand knowledge and practical experience in creating and developing their own world and visual language for all to enjoy! Students of all experience levels are welcome. They learn to use tablets and free software to enhance their creations so they can continue creating at home.

(To be scheduled soon)

## Math Art with Mrs. Markway

This is a brand new class being offered for 6-10 year olds. We will be exploring ways that math and art can be combined to create fascinating projects. Every week we will create a new piece of artwork and learn a little of math too!!! Tuition: \$10 per maker. 20% sibling discount in the same class.

*Tuesdays 6:30-7:15 9/10- 10/1*

## Physics Fun with Mrs. Markway

Another new class offered to 6-10 year olds. This class will explore various physics concepts. Every week we will build, test, explore or destroy things to learn theories and laws of motion, gravity, space and time. Tuition is \$10 per science explorer. 20% sibling discount in the same class.

*Mondays 6:30 - 7:15 Starting 9/9 - 9/30*

## Game Design

Build and design your own video games using The Games Factory 2 game engine. We'll focus on good programming practices, user interface design, testing and refining our games. The class will work on constructive criticism skills-how to make productive suggestions for game improvement.

Tuition: \$60 for 4 classes

Session I: Wed, 5:30-6:30 9/18-10/9

Session II: Wed 5:30-6:30 10/16-11/6

## Game Design Club-for those who've taken a game design class

If you've taken previous Game Design classes at LabSpace, you can join us at Game Design Club. The requirements are at least 1 session of game design and a sincere interest in designing games and game art work. This will be an interest driven club, so while we'll have the first few sessions planned, we will tailor to the interests of the group. Tuition: \$50 for 4-sessions.

Session I: Fri 5:30-6:30 9/13-10/4

Session II: Fri 5:30-6:30 10/11-11/1

## Mad Scientists

Our program for 5-8 year olds. Each session is stand alone, so you may register for those that work with your schedule. Wednesdays 4:30-5:15 Sept 4-Oct 30. We'll have lots of fun, hands-on science activities in each session! Parents are welcome to stay and participate.

Here are the topics for the next few classes:

Sept 11-Exploring Rotational Inertia

Sept 18 - Static Electricity Magic

Sept 25 - Squishy Circuits

Oct 2 - Exploring Electricity - conductors, insulators and resistors

## Music and Making- Pre-K

Join us Wednesday mornings at 10 for some fun maker and play experiences and then a short sing along. We'll rotate between playdough, painting, science experiences, and art projects. Projects will be geared to ages 3+ but may be enjoyed by younger and older children. Adults should stay and participate in play with their child and also get to have some "grown-up" conversations. Tuition is \$4 per maker with a max of \$8 per family. Please register at [LabSpaceRobotics.com](http://LabSpaceRobotics.com) to let us know you're coming.

## Robot Lab Grades 2-4

Bring your Lego creations to life! We'll learn about motors, gears, pulleys, and sensors as we build and program a new creation in each class. Each week, we'll learn more about programming our creations using a special programming language created just for these robotics sets. Tuition: \$50 for four 50-minute classes.

Level 1 Wed 4:00-4:50 Session I:9/11-10/2

Level 2 Wed 4:00-4:50 Session II: 10/9-10/30  
(this is a continuation of the Sept class. There will be no class 10/31)

## Robot and Engineering Lab Grades 2-4 Advancing

For those who have taken a Robot Lab with us before. We'll be building some models from instructions, but we'll also be focusing on using the knowledge students have gained from previous experiences to design our own models to complete challenges like designing a ride you might find at an amusement park or carnival. We'll also have classes that focus on one topic (for example, gears) and then use that to build a creation of their choice that incorporates them. Tuition: \$50 for four 50-minute classes..

Level 3 Thur 5:30-6:20 9/12-10/3

Level 4 Thur 5:30-6:20 10/10-11/1

## Robot Lab Grades 3+

No experience required -An intro to building and programming robots using Lego Mindstorms.Students will program their robots to complete a variety of fun challenges. In our beginning classes, each student works on their own robot and computer, we don't share. That way we can be sure that everyone understands all the concepts and we can help as needed. Tuition: \$50 for four 60-minute classes.

Students who have previous robotics experience are welcome in the advancing classes. We focus on specific challenges in these classes, but encourage the students to be more independent in how they arrive at a solution.

Level 1 - Tuesdays 5:30-6:30 9/17-10/8

Level 2 - Tuesdays 5:30-6:30 10/15-11/5

Advancing- Thur 10/10-11/7 (no class 10/31)

# One-time class schedule

Please register in advance since classes that don't meet a minimum registration may be cancelled. Register at [LabSpace Robotics.com](http://LabSpaceRobotics.com) or call (573)645-0800. We're happy to schedule any of these classes for your small group. We also love helping scout troops earn their badges! Just call for details.

Homeschool families, be sure to check out our LabSpace Homeschool Friday classes! Just ask us for a copy, or take a look on our website.

<b>Music and Making/ Wed, Sept 11, 18, 25 10:00</b> Pre-k and up. Younger and older siblings are welcome	Crafts, playdough, paint, Legos and more. We'll have lots of fun projects ready for you to explore and finish it all up with a sing along. Tuition is \$4 per maker with a max of \$8 per family.	\$4
<b>Mad Scientists-Rotational Inertia Wed, Sept 11 at 5:30 Ages 5+</b>	We're going to explore rotational inertia. What makes things spin the way they do? Let's try some fun hands-on activities to find out. Everyone will make a spinning top to take home. Parents are welcome to stay and participate. Please register at <a href="http://LabSpaceRobotics.com">LabSpaceRobotics.com</a> or (573) 645-0800. Same day registrations are welcome.	\$10
<b>Bow and Arrow Maker Camp Sat, Sept 14 10:00</b>	Make a bow out of craft sticks. Then construct an arrow from a straw, glue stick and eraser. These really fly across the room and you get to take them home with you! Please register at <a href="http://LabSpaceRobotics.com">LabSpaceRobotics.com</a> or (573) 645-0800. Same day registrations are welcome.	\$10
<b>Spinning Birds Lego Robotics Sat, Sept 14 11:15-12:05</b>	Learn about gears, pulleys, belts, motors and programming in this fun workshop. There will be a short introduction to the programming language and then you'll get to jump in and build your birds from directions. We'll do some experimenting with belts to see how changing them changes the birds behavior.	\$12.50
<b>Mad Scientists The Magic of Static Electricity Wed, Sept 18 4:30 Ages 5+</b>	It will look like magic, but it's science!! Charge your magic wand and move objects without touching them!! Parents are welcome to stay and participate. Please register at <a href="http://LabSpaceRobotics.com">LabSpaceRobotics.com</a> or (573) 645-0800. Same day registrations are welcome.	\$10
<b>Mad Scientists Squishy Circuits Wed, Sept 25 4:30 Ages 5+</b>	Explore circuits using conductive and insulating playdough. Let up LEDs and buzz buzzers. Parents are welcome to stay and participate. Please register at <a href="http://LabSpaceRobotics.com">LabSpaceRobotics.com</a> or (573) 645-0800. Same day registrations are welcome.	\$10
<b>SumoBots Sat, Oct 5 1:00-3:00</b>	No experience necessary! Come build a robot and then remote control it to try to bush others out of the ring. There will be plenty of time for lots of battles and experimenting with designs and driving. Tuition is \$20 per team, so grab a friend or come as a family team. This activity works best with 2 on a team. We'll have plenty of mentors on hand to help as needed!	\$20 per team
<b>Global Cardboard Challenge</b>	This year we're taking on the Global Cardboard Challenge by spending an afternoon creating doll furniture, superhero bases, games and more from shoe boxes and egg cartons. We'll have all the supplies-plenty of recyclables, ribbon, shiny bling, tape, scissors...come and bring your ideas. \$5 per maker with a max of \$10 per family.	

LabSpace offers programs year round. Sept/Oct classes are now registering. Classes in robotics, game design, programming, digital arts and more! LabSpace [Robotics@gmail.com](mailto:Robotics@gmail.com) or (573) 645-0800.

LabSpace welcomes Bright Minds Integrative Stem Lab tutoring! Bright Minds will be offering tutoring services at LabSpace.

Bright Minds STEM Lab is available for individualized tutoring services for elementary, middle and high school math, science, reading, comprehension and more! Proven results to help children find the love for learning and the resiliency to be successful!

Contact them at [brightmindsjcmo@gmail.com](mailto:brightmindsjcmo@gmail.com) for questions about tutoring services.



**BRIGHT MINDS**  
**INTEGRATIVE STEM LAB**

Upskilling the next generation of scientific minds  
with individualized mathematics and sciences tutoring.

