



## STEM-U Camp Policies and General Information

**Our Teachers** - STEM-U employs certified teachers and teachers in training to teach our camps. All teachers have at least a bachelor's degree. Many of our teachers have advanced degrees and are also STEM professionals.

**Registration** – Please register using our online system at [www.stem-u.com](http://www.stem-u.com) or call us at 614-407-4666. Upon registration with full payment, you should receive a confirmation email along with class schedule and any additional information you will need. You can expect the class teacher to communicate with you the Friday before school starts.

All classes are held at our facility at the Shops at Worthington Place, North Entrance. Plenty of parking is available outside our facility. We are offering full day sessions (9 am – 4 pm) and half day sessions (9 am – 12 pm) or (1 pm – 3 pm). Please plan on being here 15 minutes before class. Before care is held from 7:30 am – 9:00 and after care from 4 pm – 6pm). For full day camps, lunch hour will be between 12 pm – 1 pm. Children will also get some free recess and outdoor time. Children will have access to activities, outside play area in the mall, and books during this time. Children will be supervised at all times.

- Before care pricing - \$25 per week
- After care pricing - \$50 per week
- Before and aftercare package - \$75 per week
- If kids are not picked by 6 pm a charge of \$1 per minute will be levied.

**How to Register** – Please go to - <http://www.secure-booker.com/STEMU/BookOnlineStart.aspx>. All registrants must create a log-in profile. Old customers please use your email and password. If you have forgotten your password reset it. See below.



The image shows the registration and login interface for STEM-U. The top navigation bar includes 'Sign Up / Log In', 'Home', and 'Help'. Below this, there are tabs for 'Home', 'Class Schedule', 'Shop Online', 'Services', and 'Specials'. The main content area is split into two sections: 'First time here? Sign Up!' and 'Been here before? Log In!'. The 'Sign Up' section includes fields for First Name, Last Name, Email, Country (set to United States), Phone, and Password/Confirm Password. A 'Sign me up and Log me in' button is at the bottom. The 'Log In' section includes fields for Email and Password, a 'Log In' button, and a link for 'Forgot your password?'. A note at the bottom of the Log In section says 'Prefer not to create a login? Continue without logging in.'

For signing up for camps, please click on Class Schedule tab. Then click on Weekly schedule which is right below the Class schedule tab. Then change the search parameters from weekly to date range. Please select the date range of Aug 5, 2019 - August 9, 2019. This will bring up all the camps. Then check the boxes for the camps you would like to register for and add to cart. Not that you will have 10 minutes from the time to add to cart to check out. The system will time out because it does not want you to hold on to a spot for too long. If you have any trouble please call us at [614-407-4666](tel:614-407-4666) and we can complete the registration over the phone. It should look like this.

The image shows the 'Class Schedule' page on the STEM-U website. The top navigation bar includes 'Welcome Kathyayani', 'Home', 'Log Out', and 'Help'. Below this, there are tabs for 'Home', 'Class Schedule', 'Shop Online', 'Services', and 'Specials'. The 'Class Schedule' tab is active, and the 'WEEKLY SCHEDULE' sub-tab is selected. The search parameters are set to 'date range' for the period '06/05/2017 - 08/20/2017'. The page displays a list of classes for the selected date range. The classes are listed in a table with columns for Class/Workshop, Teacher, Day, Date, and Time. The classes are:

Class/Workshop	Teacher	Day	Date	Time
<input type="checkbox"/> Vex Robotics (Grades 5+) (June 5-9) <b>New!</b>		Monday	Jun 5, 2017	9:00 am - 4:00 pm
<input type="checkbox"/> Working with Shapes (Grades 2-4) (June 5-9) <b>New!</b>		Monday	Jun 5, 2017	9:00 am - 12:00 pm
<input type="checkbox"/> Simple Machines (Grades 2-4) (June 5-9) <b>New!</b>		Monday	Jun 5, 2017	1:00 pm - 4:00 pm
<input type="checkbox"/> Programming: Drones & Spheros (Grades 2-5) (June 12-16) <b>New!</b>		Monday	Jun 12, 2017	9:00 am - 4:00 pm
<input type="checkbox"/> Become a Writer (Grades 4-6) (June 12-16) <b>New!</b>		Monday	Jun 12, 2017	9:00 am - 12:00 pm

The left sidebar contains a list of class types with checkboxes: Class Type, 3D Printing (Grades 5+) (Aug 14-18), 3D Printing (Grades 5+) (June 19-23), Advanced Mathematics (Grades 7+) (Jul 10 - 14), All About Electricity (Grades 4-6) (Jul 31 - Aug 4), Animation Video Camp (Grades 4-7) (Jul 17-21), and Start Time. There is also a 'My Cart' button and an 'ADD TO CART' button.



**Lunch** - No lunch will be provided. Please pack lunch and/or snacks for your child. STEM-U is a peanut free facility. The Shops at Worthington Place has several dining options – in case your child needs lunch you can order from one of these places. We will have a menu available for you. Orders should be placed by 10 am.

**General information** - Some of our camps will have a Friday Showcase to share their new skills with parents and fellow campers. Parents will be informed at the start of the camp time and location of the showcase.

**Electronic devices** - Campers can bring their electronic devices with them. However, we expect that these devices must be put away when directed.

**Disciplinary policy** - At STEM-U we believe in being respectful of each other. Campers that bully or harass other children will be subject to disciplinary action. Children will receive two warnings and parents will be notified. If no improvement is noted, STEM-U reserves the right to remove the camper for disciplinary reasons. There will be no refund in such cases.

**Cancellations** - Course fees are identified on the course descriptions and registration pages. Registration is not complete till payments are made. Cancellations made by April 5 will incur no fees or penalties. Cancellations made after April 5 but before June 5 will incur a \$50 fee. No cancellations or refunds are possible after June 5. Camps will not be prorated for partial attendance. Please understand that these policies are set since we have made firm financial commitments with our teachers.

**Sibling/Friend referral policy** - We are offering sibling discounts. Get \$25 off per child for registering more than 1 child for full day camp and \$15 per child for half day camp. We also have a friend referral program. Bring a friend and we will take \$25 off full day camp for both or \$15 off for half day camp. Please call us at 614-407-4666 so we can process these discounts for you.



STEM-U Summer 2019 Camp Offerings\*

	All day camps - 9 am - 4 pm (Before and after care available)	Morning half day camps - 9 - 12 pm (Before care available)	Afternoon half day camps - 1 - 4 pm (After care available)
May 28 - May 31st (*4 day camp, Memorial Day)	Engineering Challenges 101 (Grades 2-4, \$220)	Little Coders (Grades K-1, \$120)	STEM Challenges 101 (Grades K-1, \$120)
Description	In this session, students will be presented with age appropriate STEM challenges everyday. Using the engineering design process, students will problem solve to complete fun and challenging activities. Students have the opportunity to learn how to design and build catapults, robotic hands, racecars, marble mazes, and other awesome engineering activities.	Our Little Coders camp is designed for early readers and will introduce basic coding concepts through board games, ozobots, and block based programs like Scratch Jr and Kodable. The class will build logical and computational thinking while still having lots fun. After the camp, students will be able to share their projects with family and friends and continue programming at home!	In this session students will be presented with age appropriate STEM challenges everyday. Using the engineering design process, students will problem solve to complete fun and challenging activities. Students have the opportunity to learn how to design and build bottle rockets, wind cars, foil boats, and other awesome engineering activities.
June 3rd-7th	Design Your Own Board Games (Grades 4+, \$280)	No Half Day Camps	
Description	Do you love playing board games? This camp will introduce the basics of game theory and design, explore various types of games, and culminate with the camper building their own board games. Campers will create the rules, art, and character(s) of their board games. Campers will play each others' board games in an organized "show-and-tell" on the last day of class. Students will leave with a copy of their very own board game to play with their family and friends!		



**STEM-U Summer 2019 Camp Offerings\***

	<b>All day camps - 9 am - 4 pm (Before and after care available)</b>	<b>Morning half day camps - 9 - 12 pm (Before care available)</b>	<b>Afternoon half day camps - 1 - 4 pm (After care available)</b>
<b>June 3rd-7th</b>	<b>Game Design with Scratch (Grades 2-4, \$300)</b>	No Half Day Camps	
<b>Description</b>	<p>Who doesn't love video games?! Campers will get to learn how to make their own video games starting with discussion about what makes good and bad video games, then they develop their own video game storylines, and finally end with a video game that they can share with all of their friends.</p> <p>Did we mention we were going to be playing some video games as well? It's called research!</p>		
<b>June 10th-14th</b>	<b>App Development - Introduction (Grades 4-7, \$300)</b>	<b>Build Simple Machines using K'nex and Lego (Grades K-1, \$130)</b>	<b>Coding with Colors (Grades K-1, \$150)</b>
<b>Description</b>	<p>Campers will learn the basics of app development using MIT's App Inventor. App Inventor is a block based programming language that allows students to easily create apps. Students will build a variety of simple apps and will end the week building their own app.</p>	<p>Man's greatest achievement has been our ability to build machines to perform work. Using K'Nex and Legos our campers will build simple machine models like gears, levers, pulleys, wheels &amp; axles. Campers will learn the principles of how each simple machine works. Campers will be challenged to apply their understanding of simple machines to make their own complex machine.</p>	<p>This is a fun way for young kids to learn coding. Students will play, create, discover, and share the wide world of the Ozobot Evo. A codable robot that can sense colors. Campers will develop logical reasoning, learn geometry, and many other age appropriate fun-filled challenges.</p>



STEM-U Summer 2019 Camp Offerings\*

	All day camps - 9 am - 4 pm (Before and after care available)	Morning half day camps - 9 - 12 pm (Before care available)	Afternoon half day camps - 1 - 4 pm (After care available)
June 17th- 21st	<b>Robot Olympics (Using Vex iQ) (Grade 5+, \$300)</b>	<b>Coding with Colors (Grades 2-4, \$150)</b>	<b>Building Simple Machines (Grades 2-4, \$150)</b>
<b>Description</b>	Get your competition on! This camp allows students the opportunity to design, build, and program the VEX IQ robots. Campers will program the autonomous functions of the robot. Campers will compete in various games. The matches will consist of Driving Skills Matches, which will be entirely driver controlled, and programming skills matches, which will be autonomous with limited human direction.	This is a fun way for young kids to learn coding. Students will play, create, discover, and share the wide world of the Ozobot Evo. A codable robot that can sense colors. Campers will develop logical reasoning, learn geometry, and many other age appropriate fun-filled challenges.	Man's greatest achievement has been our ability to build machines to perform work. Using K'Nex, campers will build simple machine models like gears, levers, pulleys, wheels & axles. Campers will learn the principles of how each simple machine works. Campers will be challenged to apply their understanding of simple machines to make their own complex machine.
June 24th- 28th	<b>Engineering Challenges 201 (Grades 2-4, \$300)</b>	No Half Day Camps	
<b>Description</b>	This camp is for budding engineers seeking more of a challenge. Each day campers will be presented a new challenge to build, deconstruct, and to be creative using the engineering design process. Some example activities include building a device to clean the oceans or building a machine to separate rocks. Have you ever taken a STEM-U engineering challenge class before? Then this class is for you!		



STEM-U Summer 2019 Camp Offerings\*

	All day camps - 9 am - 4 pm (Before and after care available)	Morning half day camps - 9 - 12 pm (Before care available)	Afternoon half day camps - 1 - 4 pm (After care available)
June 24th- 28th	<b>Make Stop Motion Animation Videos (Grades 4-7, \$300)</b>	No Half Day Camps	
<b>Description</b>	Are you passionate about animation? Come spend your day discovering the exciting challenges inspired by the world of stop animation and discover how animators animate some of your favorite movies and shows. In this class, you will use your imagination and everyday objects to create animations. At the end of the week, you can present your stop motion short film with your parents.		
July 1st-3rd	<b>Cool Tricks and Coding with OLLIE and SPHERO (Grades 2-4, \$110)</b>	<b>Engineering Construction with Legos (Grades K-1, \$90)</b>	<b>Math Games (Grades K-1, \$90)</b>
<b>Description</b>	Like Speed? Like Coding? Campers will be hands-on with one of the fastest programmable robots as they perform tricks, code programs, and navigate all kinds of turf and terrain.	This class aims to inspire and develop the builders of today and tomorrow. This camp will use Legos to teach the basics of the engineering design process. Campers will be provided some specifications on what to build and will be allowed to use their imagination to make their creations. Come build and explore with us!	The best way to learn is by playing! Campers will work with numbers, shapes, patterns, size and more by playing games.



**STEM-U Summer 2019 Camp Offerings\***

	<b>All day camps - 9 am - 4 pm (Before and after care available)</b>	<b>Morning half day camps - 9 - 12 pm (Before care available)</b>	<b>Afternoon half day camps - 1 - 4 pm (After care available)</b>
<b>July 8th-12th</b>	<b>Animation Video Camp With Storyboarding (Grades 4-7, \$300)</b>	No Half Day Camps	
<b>Description</b>	The prerequisite to this class is Make Stop Motion Animation Videos. In this class, Campers will learn how to create a storyboard, build characters, and setup scenes for a movie. They will then shoot their movie and make a presentation of the stop motion short film to share with their friends and family.		
<b>July 8th-12th</b>	<b>Arduino Programming (Grade 7+, \$350)</b>	No Half Day Camps	
<b>Description</b>	Students will explore Arduino based microcontrollers and sensors. An Arduino is a microcontroller, a small computer used as the brain of a robot which can be programmed to control the way buttons, motors, switches, sensors, lights, and other electronic parts interact. In this camp, students will design, plan, program, and build an electronic invention while using an Arduino and learning how to code. Students will study various applications for ultrasonic sensors, humidity sensors, thermal sensors etc. We will move students from basic programming and electronic circuit concepts to building the robot and exploring each sensor/actuator's capabilities.		





**STEM-U Summer 2019 Camp Offerings\***

	<b>All day camps - 9 am - 4 pm (Before and after care available)</b>	<b>Morning half day camps - 9 - 12 pm (Before care available)</b>	<b>Afternoon half day camps - 1 - 4 pm (After care available)</b>
<b>July 15th-19th</b>	<b>3D Printing Beginner (Grades 5+, \$350)</b>	<b>Drone Missions (Grades 3-5 \$150)</b>	<b>Medieval Engineering (Grades 3-5, \$150)</b>
<b>Description</b>	<p>If you like design and construction this camp is for you! Campers will experience the true potential of the most up to date technology in 3D modeling software and 3D printers. Campers will learn how to use both the software and the printer to create their own designs and learn what the future holds for 3D printing. All printed items are yours to keep!</p>	<p>Have you ever wanted to fly a drone rescue mission? Campers will use simple drag and drop programming to fly drones. This camp will involve various challenges that must be accomplished by programming – like maneuvering around and through obstacles, flying through different terrains, hovering and landing on alternate targets, and much more! This class is designed for students who may have never flown drones or have any experience with programming.</p>	<p>What methods of attack were used to conquer a castle? Who doesn't love hurling large boulders at each other? Working in teams, campers will prepare a siege on their opponent's castle as they design, build, test, and modify several different medieval technologies.</p>
<b>July 22nd-26th</b>	<b>Battlebots (Grades 2-4, \$300)</b>	<b>No Half Day Camps</b>	
<b>Description</b>	<p>Can your robot survive the octagon? Come test your skills by designing and building the meanest, toughest, and smartest battlebot! Faceoff with other campers to see who emerges as the victor.</p>		



**STEM-U Summer 2019 Camp Offerings\***

	<b>All day camps - 9 am - 4 pm (Before and after care available)</b>	<b>Morning half day camps - 9 - 12 pm (Before care available)</b>	<b>Afternoon half day camps - 1 - 4 pm (After care available)</b>
<b>July 22nd-26th</b>	<b>App Development - Intermediate (Grades 4-7, \$300)</b>	<b>No Half Day Camps</b>	
<b>Description</b>	The prerequisite to this camp is App Development Introduction. Campers will continue to build their skills in app development. In this camp, students will build more complicated original apps.		
<b>July 29th- August 2nd</b>	<b>3D Printing Advanced (Grades 6+, \$350)</b>	<b>Coding for Girls (Grades 2-4, \$150)</b>	<b>Battling Spheros (Grades 2-4, \$150)</b>
<b>Description</b>	The prerequisite to this camp is 3D Printing Beginner. In this camp, campers will move beyond the basics, learning more advanced techniques to create fully customized objects. Campers will work on a specific design project focused on using 3D printing for a real world application! If you have taken 3D Printing before this class is for you.	This an all girls class focused on introducing girls to the world of coding. Campers will learn block based programming and will interact with various robots, such as Spheros and Ollies, to apply block based programming. Students will also explore SCRATCH and TYNKER to build simple games and animations. Students will get to hear from professional women coders to introduce them to real careers in coding!	Campers will build armor, chariots and use their Spheros to battle it out to the bitter end. In this class students will be introduced to basic programming to enable them to defeat their opponents.



**STEM-U Summer 2019 Camp Offerings\***

	<b>All day camps - 9 am - 4 pm (Before and after care available)</b>	<b>Morning half day camps - 9 - 12 pm (Before care available)</b>	<b>Afternoon half day camps - 1 - 4 pm (After care available)</b>
--	--	---	---

**GET READY FOR SCHOOL WITH THESE MATH CAMPS!!!**

<b>August 5th-9th</b>	No All Day Camps	<b>Math Bootcamp (Grades 2-4, \$110)</b>	<b>Math Bootcamp (Grades K-1, \$110)</b>
<b>Description</b>		Get ready for the next school year by immersing yourself in Math fundamentals that are necessary for success. This camp will arm you with the tools and strategies to help your school year be a success.	Get ready for the next school year by immersing yourself in Math fundamentals that are necessary for success. This camp will arm you with the tools and strategies to help your school year be a success.
<b>August 5th-9th</b>	No All Day Camps	<b>Get Ready for Algebra (Grades 6-8, \$110)</b>	<b>Math Bootcamp (Grades 4-6, \$110)</b>
<b>Description</b>		Come to STEM-U to get ready for Algebra the right way. There's no class more infamous for determining success in high school Math than Algebra. Our Pre-Algebra camp engages students in meaningful math that will ensure campers will have the foundation needed to succeed in their upcoming math courses.	Get ready for the next school year by immersing yourself in Math fundamentals that are necessary for success. This camp will arm you with the tools and strategies to help your school year be a success.

*\*Camps are limited to 10-12 students. Before care (7:30 am - 9 am) and after care (4 pm - 6 pm) available at additional charge*

*Before care starts at 8 am and After care ends at 6 pm. Package is \$75 per week. Can pay daily rates. Also can opt for either only before care or after care*

*\*\*3-day camp due to 4th of July weekend*

*Register at [www.stem-u.com](http://www.stem-u.com)*

*Call 614-407-4666*