

LMS/LIS

Afterschool STEM Classes

Winter/Spring Classes: (choose one)

- Wearable Tech — Create and take home your own SMARTWATCH!
- Digital Photography and Photoshop (Grades 7+) Levels 1, 2
- Minecraft: Wonders of the World Expanded
- Robotics: Animal Allies
- Virtual Reality



Time: 2:25-4:00pm, Tuesdays

Dates: 2/13, 2/20, 2/27, 3/6, 3/13, 4/10, 4/17, 4/24, 5/1, 5/8 (Snow Day: 5/15)

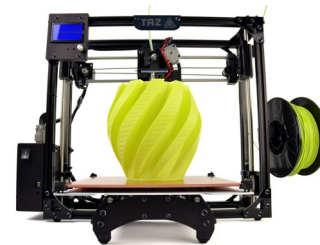
Cost: 15 hours for \$180 Minecraft, Robotics, Photography, VR; \$250 for Smartwatch

Questions: email us at info@stemsforyouth.org

Register: www.STEMsForYouth.org

Potential Summer Camps

- Drones—Learn to program and fly drones
- Virtual and Augmented Reality
- Programming in JavaScript, Lua and Python
- Digital Photography and Photoshop (Grades 7+) Levels 1, 2
- 3D Design and Printing Levels 1, 2, 3
- Minecraft and New Minecraft Modding
- Robotics
- Wearable Tech—Combine 3D printing and electronics



STEMs For Youth is a non-profit organization that helps youth grow and flourish in the fields of STEM (Science, Technology, Engineering, and Math) while developing their creativity. We are youth mentoring youth with expert advisors. Students sometimes don't see the value of learning STEM subjects in school. Our mission is to change that perception and infuse them with excitement and the ambition to learn more! You can get more information at our website: www.STEMsForYouth.org or email us at: info@STEMsForYouth.org or call: 513-225-8545.

(If this would be a financial hardship for your family, please contact us at info@STEMsForYouth.org.)

While teachers from various schools are consulted in the development of this curriculum, this activity is not sponsored by Loveland City Schools.

LMS/LIS Class Details

Virtual Reality

Join us as we explore creating in Virtual Reality! We'll make a 3D video game you can play in VR and lots of other fun stuff. This class requires a smartphone, but we do have some available. In the registration form, please let us know if you will be bringing a smartphone or if you will be using one of ours so we can have the appropriate equipment on hand. (The smartphone just needs to be able to connect to WiFi, older smartphones are fine.)

Smartwatch: Program your own smartwatch!

What would YOU like on your smartwatch? You'll learn how to create new watch faces with exactly what you want to see. Pick a background picture, text notifications, call answer or deny, exercise information or lots of other choices. You'll learn some javascript programming and leave with a working smartwatch! (*There is an upcharge for this class to help cover the cost of the smartwatch.)

Robotics 101/102: Animal Allies Rescue Challenge

Sometimes we help animals and sometimes they help us. Can you build a robot to rescue the Therapy dog? Can you safely deliver the dolphin to its new home? The baby Panda is lost in the woods, can you help him find the way out? Many adventures await in the fun filled Animal Rescue Challenge. Along the way, we'll learn to use sensors, switches, loops and variables to get all our friends back home. Robotics 101 uses Lego Mindstorm robots and is perfect for beginner to intermediate Robot Scientists. For those with more advanced Mindstorms programming experience, choose Robotics 102 for more complicated challenges (a great class for those interested in joining a Robotics team in the future.) We'll start with the basics and scaffold to the field used in the FLL Animal Allies World competition!

Minecraft: Wonders of the World Expanded

Evil forces have taken over the 7 Wonders of the World. We must defeat all the foes while exploring the monuments, understanding how they were built, and learning their secrets. Repair the damage and receive special rewards! Explore the Taj Mahal, the Great Pyramids, and the other ancient and modern "7 Wonders of the World". We'll learn about how they were built, explore their recreation in Minecraft and maybe even build an 8th wonder of our own! Learn about the 7 wonders of the world and have fun playing Minecraft at the same time!

Digital Photography and Photoshop (Grades 7+)

Learn how to use a DSLR Camera like the pros. We'll learn composition criteria, what F-stops are, why you adjust shutter speeds and so much more. Then take your great photos, import them into Photoshop, and create digital masterpieces! Cameras are supplied or you can bring your own.

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