



# 2021 Summer Camp

## In-Person Camps for Ages 9 - 12

BadgerBOTS is offering both In-Person and Virtual Camp options.

Our In-Person camps will follow Public Health Madison & Dane County and CDC guidelines.

Register Online [www.BadgerBOTS.org/summercamp](http://www.BadgerBOTS.org/summercamp)

**LEGO Robotics on Mars** \$475/week – Ages 9-12 – In-Person – 9:00 am to 3:00 pm

The Mars Perseverance rover has us wondering, “How do robots work on Mars?” and “How do scientists and engineers build robots for space?”. Learn to design and program your own LEGO rover robot and test it at our “BadgerBOTS Space Lab” this summer.

June 14 - 18

July 12 - 16

August 2 - 6

August 23 - 27

**Handheld Arcade Coding** \$475/week – Ages 9-12 – In-Person – 9:00 am to 3:00 pm

Learn to code your own video games and take them with you everywhere. Code and design games using a combination of JavaScript and block-based coding. Download your projects to a pocket-sized GameGo controller, then take them into the world and play with your friends.

June 28 - July 2

July 26 - 30

August 16 - 20

**Micro:bit Robotics** \$475/week – Ages 9-12 – In-Person – 9:00 am to 3:00 pm

Build a different type of agile robot that can drive, raise, follow, stop, carry, and glow using a micro:bit, a super small and very versatile computer. Write a few lines of Microsoft MakeCode or JavaScript and control servo motors for driving, LED lights, and get input from several kinds of sensors.

June 21 - 25

July 19 - 23

August 9 - 13

**Extended Day – Late Pick-Up Option** \$75/week – 3:00 pm to 5:00 pm

Summer camp does not have to end at 3 pm! Campers can stay at BadgerBOTS until 5 pm. Enjoy some outdoor time in our backyard, try a “screen-free” STEM experiment or craft project, and hang out with your camp friends.

Take a look at our other [Camps for Ages 7 - 9](#) and [Virtual Camps for Ages 9 - 12!](#)

BadgerBOTS Robotics ▪ (608) 831-6479 ▪ 7615 Discovery Drive Middleton, WI

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## Virtual Camps for Ages 9 - 12

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### **3D Printing with Tinkercad** \$260/week – Ages 9-12 – Virtual – 8:30 to Noon or 1:00 to 4:30 pm

Use a computer to make 2D and 3D art. Design digital artifacts using Tinkercad, then learn to use and troubleshoot a 3D printer. We'll print your favorite five designs at BadgerBOTS!

June 14 - 18  
8:30 AM - Noon

June 28 - July 2  
1:00 - 4:30 PM

July 19 - 23  
1:00 - 4:30 PM

August 9 - 13  
1:00 - 4:30 PM

August 16 - 20  
8:30 AM - Noon

### **Minecraft Game Modding** \$260/week – Ages 9-12 – Virtual – 8:30 to Noon or 1:00 to 4:30 pm

Tweak your inventory, create games like you've played on servers, or customize your Minecraft experience. Build your programming skills and dip your toes into game design. Play with others, learning how to keep it fun and fair, in one of our most popular camps.

June 21 - 25  
8:30 AM - Noon

July 12 - 16  
1:00 - 4:30 PM

July 26 - 30  
1:00 - 4:30 PM

August 2 - 6  
8:30 AM - Noon

August 23 - 27  
8:30 AM - Noon

### **Micro:bit Hacking @ Home** \$285/week – Ages 9-12 – Virtual – 8:30 to Noon or 1:00 to 4:30 pm

Program a micro:bit, a teeny, tiny device that attaches to sensors, motors, and other electronic components. Use the micro:bit and Microsoft MakeCode to hack projects like wearable technology, custom alarm systems, musical instruments, and fidget cubes.

June 21 - 25  
1:00 - 4:30 PM

July 12 - 16  
8:30 AM - Noon

July 26 - 30  
8:30 AM - Noon

August 9 - 13  
8:30 AM - Noon

August 16 - 20  
1:00 - 4:30 PM

### **Coding with Artificial Intelligence** \$260/week – Ages 9-12 – Virtual – 8:30 to Noon or 1:00 to 4:30 pm

Artificial intelligence technology is everywhere, from voice commands to facial recognition to the next video to watch online. Learn to use machine learning with your coding projects and games. Create programs to recognize images, answer voice commands, and play a game against you.

June 14 - 18  
1:00 - 4:30 PM

June 28 - July 2  
8:30 AM - Noon

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### **LEGO WeDo: Build, Code, Create** \$475/week – Ages 7-9 – In-Person Instruction – 9:00 am to 3:00 pm

This is a camp for LEGO fanatics! Experiment with building using LEGO WeDo 2.0. Learn to program by building a model that responds to sound, movement, and changes in distance. Apply what you learned to make your own LEGO creations using the WeDo interface.

June 14 - 18

July 12 - 16

August 2 - 6

August 23 - 27

### **Digital Storyteller** \$475/week – Ages 7-9 – In-Person Instruction – 9:00 am to 3:00 pm

Technology is becoming more critical to the way we interact and learn. Tell your own stories with games you design and code with Scratch. Have fun with a green screen and stop-motion animation to create newscasts and mini-movies.

June 21 - 25

July 19 - 23

August 9 - 13

### **Junior Computer Scientist** \$475/week – Ages 7-9 – In-Person Instruction – 9:00 am to 3:00 pm

Computers might be everywhere, but do you know how to spot one? How do computers work, and how do they connect? What does it mean to “code a computer?” Become a Junior Computer Scientist at BadgerBOTS this summer and learn to solve complex computing problems.

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July 26 - 30

August 16 - 20

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