

# ENGINEERING FOR KIDS

## Apprentice/Master Camp for Ages 7-14 (June 12 - 16)

**Engineer Investigators** “Forensics Science” (9 a.m. - 12 p.m.): Become a forensics engineer and help Kelvin find out who stole the blueprints for his secret, new design. Using principles of investigative science and forensic engineering, students will analyze evidence in the simulated crime scene using math, science, and technology.

Embark on a new journey each day to decipher cryptic clues and biological codes, and help us identify the thief through chemical and mechanical analysis. Time is running out, and Kelvin needs your help!

**MinecraftEDU** - “Traveling into the Future” (1 p.m. - 4 p.m.): This camp will immerse students in the expansive world of Minecraft, and will challenge student’s ingenuity and problem solving skills as they navigate through several engineering challenges. Students will learn how to use teamwork and manage resources like an engineer in the real world. Building in Minecraft allows students to experiment with designs and materials, all without the risks associated with building structures in reality.

Day: Monday – Friday

Date: June 12 - 16

Time: Option A: 9:00 a.m. – 4:00 p.m. **Course Code: 17300**

Full Day Fee: \$250 (resident) \$375 (non-resident)

Time: Option B: 9:00 a.m. -12:00 p.m. **Course Code: 17301**

Option C: 1:00 p.m. – 4:00 p.m. **Course Code: 17302**

Half Day: \$175 (resident) \$262 (non-resident)

Multi-family discount: \$25 off each additional child

Age: 7 – 14 years old (Apprentice/Master)

Location: Kiwanis Center

Note: A \$25 per camper supply fee is due to the instructor on the first day. Checks should be made out to [Merrell Academic, LLC](#).

## Apprentice/Master Camp for Ages 7-14 (July 10 - 14)

**3D Printing** “Superheroes To The Rescue “ (9 a.m. - 12 p.m.): 3D printers are one of the most widely applicable and fun inventions on the tech scene today! In this camp we will explore the basic concepts of 3D printing and computer-aided design, or CAD, to design and create our very own 3D printed superhero! Students will take their hand drawn design and learn how to extrude it into a 3D model that can then be modified to be printed in 3D.

**MinecraftEDU** – “Redstone” (1 p.m. - 4 p.m.): MinecraftEDU is an expansive game that lets players design and create unique worlds with amazing structures. One of the more complicated aspects of MinecraftEDU is Redstone, which is MinecraftEDU’s version of electrical circuitry. This class will introduce students to the many uses of Redstone through a Medieval themed adventure of creation, exploration, and castle besieging, with students making mine cart tracks to help them gather resources, working together to build their kingdom, and designing traps to defend their castle, all with the use of Redstone.

Day: Monday – Friday

Date: July 10 - 14

Time: Option A: 9:00 a.m. – 4:00 p.m. **Course Code: 17306**

Full Day Fee: \$250 (resident) \$375 (non-resident)

Time: Option B: 9:00 a.m. -12:00 p.m. **Course Code: 17307**

Option C: 1:00 p.m. – 4:00 p.m. **Course Code: 17308**

Half Day Fee: \$175 (resident) \$262.50 (non-resident)

Multi-family discount: \$25 off each additional child

Age: 7 – 14 years old (Apprentice/Master)

Location: Kiwanis Center

Note: A \$25 per camper supply fee is due to the instructor on the first day. Checks should be made out to [Merrell Academic, LLC](#).

## Junior Camp for Ages 4 - 6 (June 12 - 16)

**Junior Inventors Workshop (10 a.m. – 12 p.m.):** We have opened up the workshop for a week of fun, creativity, and of course -- engineering! Over the course of a week, students will invent new machines and explore creative design solutions using the Engineering Design Process. Discover how a wind-up toy works and design your own drawing robot inside the Engineering for Kids Inventor’s Workshop.

**Junior Camp Kelvin – (1 p.m. – 3 p.m.):** Pack your bags and lace up your hiking boots engineers, because at Camp Kelvin, we are engineering designs to help us explore the great outdoors. Build a tent, design waterproof clothing, engineer your own survival pack and more! Join us for a week of fun and adventure where everyone goes home a happy camper!

Day: Monday – Friday

Date: June 12 - 16

Time: Option A: 10:00 a.m. – 3:00 p.m. **Course Code: 17303**

Full Day Fee: \$225 (resident) \$337.50 (non-resident)

Time: Option B: 10:00 a.m. -12:00 p.m. **Course Code: 17304**

Option C: 1:00 p.m. – 3:00 p.m. **Course Code: 17305**

Half Day Fee: \$150 (resident) \$225 (non-resident)

Multi-family discount: \$25 off each additional child

Age: 4 - 6 years old (Juniors)

Location: Kiwanis Center

Note: A \$25 per camper supply fee is due to the instructor on the first day. Checks should be made out to [Merrell Academic, LLC](#).

## Junior Camp for Ages 4 - 6 (July 10 - 14)

**Software Engineering – “Scratch/Makey Makey “Musical Adventures” (10 a.m. – 12 p.m.):**

When your favorite song comes on the radio do you sit quietly or do you dance around and play the air drum solo? In the Musical Adventures with Scratch and Makey Makey camp, students are going to explore how different sounds are created. We will create our own interpretations of common musical instruments like drums, piano, guitar, and even a recorder. Then we will create our very own dancing program, all through the use of Makey Makey and Scratch to bring our music to life! The last day will end with a bang or at least a really great mini concert from all of our students!

**The Engineering of Travel – “Wings - Wheels and Sails”**

**(1 p.m. – 3 p.m.):**

During this camp students will explore areas of engineering such as mechanical, civil, marine, and aerospace. They will explore the thought process behind road design, construct shapes that make sound bridges and test them, design a boat to float across the ocean, and discover and build designs that let us travel through the air and even into space.

Day: Monday – Friday

Date: July 10 - 14

Time: Option A: 10:00 a.m. – 3:00 p.m. **Course Code: 17309**

Full Day Fee: \$225 (resident) \$337.50 (non-resident)

Time: Option B: 10:00 a.m. -12:00 p.m. **Course Code: 17310**

Option C: 1:00 p.m. – 3:00 p.m. **Course Code: 17311**

Half Day Fee: \$150 (resident) \$225 (non-resident)

Multi-family discount: \$25 off each additional child

Age: 4 - 6 years old (Juniors)

Location: Kiwanis Center

Note: A \$25 per camper supply fee is due to the instructor on the first day. Checks should be made out to [Merrell Academic, LLC](#).