



SIZZLING SUMMER CAMP

***Niles Township High School District 219
SIZZLING SUMMER ENGINEERING***

For Grades 4 - 8

June 24th - June 28th

9:30-11:00, 11:15-12:40, & 1:00-2:25

July 29th- August 2nd

9:30-11:00, 11:15-12:40, & 1:00-2:25

**Niles North High School
9800 North Lawler Ave, Skokie, IL**

District 219 is proud to offer the fourth annual summer engineering enrichment program to children in the Niles Township area. District teachers have developed activities which will immerse children in many exciting areas of engineering. This hands-on program is based on the successful pre-engineering program of Project Lead the Way, offered at both Niles North and Niles West High Schools. Students will work together in a fun, exciting environment using leading-edge technologies to sample such disciplines as robotics, aeronautics and computer design. For more information visit our website at www.niles219.org/STEM

Cost and Registration

- \$45.00 registration fee for each session
- Please register on-line at <http://www.skokieparks.org/summer-camps/sizzling-summer-engineering>

Location

- Classes are held at Niles North High School, 9800 Lawler Avenue, Skokie, IL.

Parking and Drop Off

- Parking is available at the main entrance off of Lawler Avenue.
- Drop-off will take place in the North lot by the main entrance. Campers should be dropped by the curb, not in the middle of the parking lot.
- Parents may escort children into the building lobby to be met by students, who can escort them to their rooms.

Scholarships

- A limited number of scholarships are available for families in need of financial assistance. To make a request for financial assistance, please call 847-626-2079.

Faculty

- Engineering Sizzling Summer faculty are District 219 teachers who are extremely knowledgeable in their teaching areas. Varied backgrounds, disciplines, and experience allow them to provide your child with enjoyable and rewarding learning experiences.

Refund Policy/Liability

- Registration fees are non-refundable once class has begun.
- Classes with low enrollment will be cancelled and a full refund will be issued.

Questions

- Program and scholarship information: Contact Chris Powell, Director of Applied Sciences & Technology, at chrpow@d219.org or (847) 626-2060
- Registration questions: call 847-626-2079

CLASS OFFERINGS

3D Design & Animation (Autodesk Inventor)

Participants will use three-dimensional CAD software to create innovative designs. This includes brainstorming an item, drawing it in Inventor, and printing the item with a 3-D printer.

232859-01	M-F	6/24-6/28	9:30-11:00	\$45
232859-03	M-F	6/24-6/28	1:00-2:25	\$45
232859-05	M-F	7/29-8/2	11:15-12:40	\$45

Rapid Prototyping & CNC

Students will be exposed to creating a part virtually and having that part created physically on our prototyping machine, CNC Router, or CNC mill and CNC Lathe.

232867-02	M-F	6/24-6/28	11:15-12:40	\$45
232867-06	M-F	7/29-8/2	1:00-2:25	\$45

Electronics

Participants will learn about the theory and practice of electronics. This will include designing and building circuits, while learning about power supplies, voltage, current, and resistance, all while working in a hands-on environment.

232861-01	M-F	6/24-6/28	9:30-11:00	\$45
232861-03	M-F	6/24-6/28	1:00-2:25	\$45

Robotics Programming (Vex)

Participants will learn how to properly program a robot to perform a specific task. This includes turning on lights, running motors, following a line, picking up an object and much more.

232862-02	M-F	6/24-6/28	11:15-12:40	\$45
232862-04	M-F	7/29-8/2	9:30-11:00	\$45

Robotics Construction (Vex)

Participants will learn how to construct a functioning robot using VEX hardware. These robots can be built to do a variety of things, which include completing an obstacle course, racing other robots, transferring an object from one point to another and more.

232866-01	M-F	6/24-6/28	9:30-11:00	\$45
232866-03	M-F	6/24-6/28	1:00-2:25	\$45
232866-05	M-F	7/29-8/2	11:15-12:40	\$45

Bridges & Structures

Participants will learn about different bridge designs while analyzing structural shapes. They will build a bridge out of balsa wood and test its strength and efficiency.

232860-02	M-F	6/24-6/28	11:15-12:40	\$45
232860-04	M-F	7/29-8/2	9:30-11:00	\$45

Catapults

Students will create a catapult with everyday household items. They will learn how to adjust the angle and velocity of their catapult in order to achieve and maintain accurate results.

232868-03	M-F	6/24-6/28	1:00-2:25	\$45
232868-06	M-F	7/29-8/2	1:00-2:25	\$45

Video Production

Participants will learn the ins and outs of video production which include video camera operation, non-linear video editing, lighting, sound, shot composition, camera movement, and working together as a production crew.

232869-02	M-F	6/24-6/28	11:15-12:40	\$45
232869-04	M-F	7/29-8/2	9:30-11:00	\$45

Culinary

Participants will learn about food science and how to make healthy snacks.

232870-03	M-F	6/24-6/28	1:00-2:25	\$45
232870-05	M-F	7/29-8/2	11:15-12:40	\$45
232870-06	M-F	7/29-8/2	1:00-2:25	\$45

Fashion

Participants will learn how to work with re-purposed and recycled materials to create fashion designs. Projects may be selected for the SWANCC (Solid Waste Agency of Northern Cook County) Fall 2013 Trashy Fashion Show and/or the Niles Township D219 2014 Spring fashion show.

232871-01	M-F	6/24-6/28	9:30-11:00	\$45
232871-05	M-F	7/29-8/2	11:15-12:40	\$45

The cost is only \$45 for each class!
Cost includes T-shirt, class certificates and lab supplies.
Register online at www.skokieparks.org

Through their community-based partnership, the Skokie Park District and School District 219 continue to offer programs such as Sizzling Summer Engineering, increasing children's programming and leisure opportunities for the residents of Skokie and the areas served by District 219.