Engineering for Kids | Winter Programs 2016

Apprentice Design the Future
(*Ages 7-11*)

What does the future look like? Join us as we embark on an odyssey to explore the future of transportation, manufacturing, and structural. Let's take a look at the innovations of today and apply them to create the designs of tomorrow as we explore ways to harness clean energy and house a growing human population. **$25 supplies fee payable in cash or check the first class to the instructor.**

2051-W16A	Snow (Art Room)
4 - 5:30 p.m	Mon.
Feb. 22	**5 weeks**
Engineering for Kids	$85

Apprentice Mechanical Engineering
(*Ages 7-11*)

During the Mechanical Engineering classes, students use the Engineering Design Process to design, create, test, and refine a variety of machines and mechanical systems. Students learn basics of fluid mechanics, simple machines, and other design and engineering concepts while constructing roller coasters, catapults, and two different custom mini dragsters they keep at the end of the course (air powered and rubber band powered). **$25 supplies fee payable in cash or check the first class to the instructor.**

2052-W16A	Becker (Art Rm)
4 - 5:30 p.m.	Tu
Feb. 23	**5 weeks**
Engineering for Kids	$85

Apprentice Programming Kodu Kart Racing
(*Ages 7-11*)

Race to the finish and create your own racing game in Microsoft's Kodu gaming environment. From terrain design to enemy selection, students are placed at the wheel and give full control to design their own video game while exploring the foundations of coding. Kick your creativity in gear with Kodu Kart Racing. (Not compatible with Mac or Linux)

2053-W16A	Lindbergh (Art Room)
4 - 5:30 p.m.	Th
Feb. 25	**5 weeks**
Engineering for Kids	$110

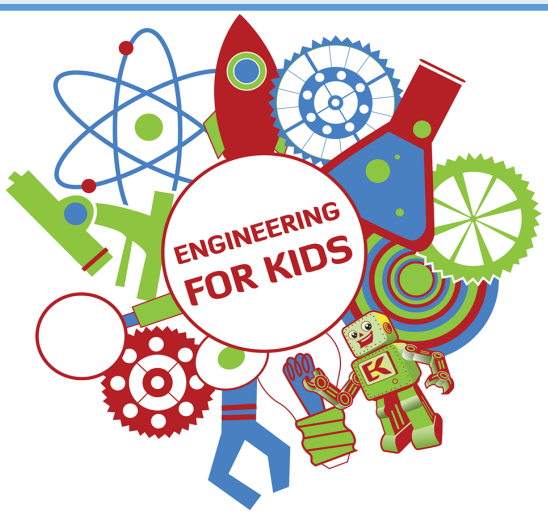
Junior Programming 101: Space Pioneers
(*Ages 4-6*)

Embark on fun journey to space with Scratch! Send an astronaut to the moon and defend your moon base from space rocks. Learn how to use Scratch to create and program sprites, backdrops and basic scripts. Create a new program each day, leave the evidence of your wild space adventure, and be inspired to explore the universe of programming as a Space Pioneer.

2054-W16A	Long (Cafe)
4 - 5 p.m.	W
Feb. 24	**5 weeks**
Engineering for Kids	$70

Master: PC Game Design-Invader Defense
(*Ages 11-15*)

During the PC Game Design *Invader Defense*, students will create a video game from start to finish. Students create a hero, enemies, obstacles, projectiles and even a boss. Students will also add animation and sound to their characters. At the end of the program, students receive a copy to take home.

2055-W16A	Smith Middle Schl. (Art Rm)
3:05 - 4:35 p.m.	Tu
Feb. 23	**5 weeks**
Engineering for Kids	$110

Register by calling Dearborn Community Education at 313-827-1959 or visiting www.dearbornceonline.org