EEE Summer School Course Descriptions

Summer of Code:

This is your chance to learn and practice programming and become the master of new tricks! Options could include making designs with Root robots, messaging with MicroBits, and building Sumo robots with Lego Ev3. We will use block code which is a simplified version of computer code that is easy to learn. No knowledge of programming is required. Flexibility will allow students to explore their passions and create fun projects.

Rube Goldberg Machines

This summer we will once again be building Rube Goldberg Projects during EEE summer school. Students will be divided in groups of three or four and asked to build contraptions that accomplish a task. We will incorporate Newton’s Laws of Physics as well as transfers and transformations of energy to accomplish our tasks. Students will construct their project on a wooden platform using a various assortment of supplies and materials like wood, plastic, metal, string, cardboard, rolling cars, marbles, ping pong balls, pulleys, levers, springs, rubber bands, bells...etc. Last summer some of the machines were quite amazing. We look forward to another innovational experience in the world of Rube Goldberg Machines.

The REAL Game of Life:

What do we REALLY need to know before we become adults? This fast-paced, game-style course will give students an opportunity to learn what is NOT taught in the traditional school curriculum. This class will focus on learning real-life skills (#adulting101) that will help students grasp content that really matters outside of school. Sample topics addressed are financial literacy, cooking, car maintenance, taxes, social etiquette, and so much more!

The Minecraft EEExperience

Minecraft: Education Edition is an educational version of Minecraft, the game loved by young people all over the world. Through Minecraft Education you will learn and grow based on areas of your personal interest. Whether it’s Math, Writing, History, Science, Computer Science or any other subject; you can not only learn teamwork and collaboration skills, but also develop creative confidence, learn new information, and build worlds in new and exciting ways. In The Minecraft EEExperience you will learn the basics of computer code, create your own mythology, build breakout/escape rooms, and create a project of your choice based on areas of personal interest. If you love video games, Minecraft, storytelling, creating and solving puzzles, or building way cool worlds where others can explore and learn then you will love this summer school experience.