



SUMMER CODING I

COURSE DESCRIPTION:

In the Coding I class students will:

- Understand essential concepts of programming using Scratch
- Learn important control structures
- Complete fun assignments, write algorithms to achieve desired result
- Use knowledge of Scratch to write programs in JavaScript
- Write and execute functions in JavaScript
- Program web pages using JavaScript

COURSE REQUIREMENTS:

The course requires no prior knowledge of coding. Students will need to bring their own laptop running Windows, Mac or Chrome operating system (not tablets!). Chrome web browser must be installed. I-series (i3-7) or equivalent processor.

INSTRUCTOR: Brenda Zhuang

Brenda has taught middle school math in our school for several years. She works as a principle engineer in a software company. Her passion is to solve engineering problems with software solutions. She truly believes that learning to code is coding to learn. Computer science is the new literacy all kids would learn.

Fees and Time

Mondays and Wednesdays and Fridays 6:30-8:30 PM for 4 weeks starting June 25 and ending July 27 (no classes during the 4th of July week). The fee is \$522 for the 12-class session.

SUMMER CODING II

COURSE DESCRIPTION:

The Coding II course will introduce JavaScript, one of the popular programming languages. JavaScript is a cross-platform, object-oriented scripting language used to make webpages interactive (e.g. having complex animations, clickable buttons, popup menus, etc.)

In this course students will learn:

- the syntax and structure of basic programs built-in types;
- JavaScript operators;
- statements, functions, arrays, objects;
- the HTML `<canvas>` element (is used to draw graphics);
- how to write their own programs, with assignments being of a real-world problem solving nature.
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COURSE REQUIREMENTS:

Students will need to bring their own laptop running Windows, Mac or Chrome operating system (not tablets!). Chrome web browser must be installed. I-series (i3-7) or equivalent processor. Basic familiarity with programming concepts is assumed.

INSTRUCTOR: Iryna Tarasevich. Iryna holds the MS degree in Mathematics and Computer Science from Belarus. Her teaching experience spans from middle school to college students. She is teaching middle and high school math at RSM-Metrowest.

Fees and Time

Mondays and Wednesdays 4:00-6:00 PM for 6 weeks starting July 9 and ending August 15. The fee is \$522 for the 12-class session.