

# STEM<sup>3</sup> ACADEMY

OUT OF THE BOX STUDENTS. LEARNING. RESULTS.

For bright, curious, technology-driven students grades 3-12 with social and/or learning differences

# 2017 SUMMER PROGRAMS

GAME DESIGN

ROBOTICS

CODING

CYBERSECURITY AND  
CRYPTOGRAPHY



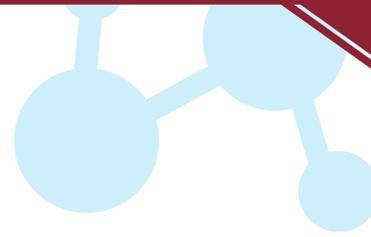
**VALLEY GLEN CAMPUS**

**JUNE 12TH - AUGUST 18TH**

**9:00AM - 2:00PM**

# STEM<sup>3</sup> ACADEMY

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**\$499.00**  
PER WEEK

## **GAME DESIGN: JUNE 12-23 (2 WEEKS)**

We know you like to play video games, but can you design your own? This two-week course is for the beginner and the more experienced in video game design and development—students will analyze existing games and media, and tackle a game development project of their own. The course will include game mechanics and design choices, and the importance of being critical of media, even of media we enjoy. Software used may include all or some of the following: Unity, Photoshop, and Maya. Culmination of the class will be an ongoing developmental project for students to explore and design their own game. [Grades 6-12]

## **ROBOTICS: JUNE 26-30 (1 WEEK)**

Robots are everywhere, from the single robotic arm used in car manufacture, to the vacuum cleaner that moves silently and autonomously across your living room floor, to the small mobile units with sensors that search for and rescue victims after an earthquake. In this one-week camp, students will build robots and program them for competition, and engage with others in a battle of the bots. The VEX platform supports learning the electronics, programming and building of robots and the development of unique designs. More expert students will be able to use the lab's extensive resources to advance their knowledge of programming, robot manufacture and electronics. [Grades 3-6 and Grades 7-12]

## **CODING FROM SCRATCH: JULY 3-7 (1 WEEK)**

Whether you're coding for the first time or already know one or two languages, this is an opportunity to develop skills and expertise. In this one-week camp, we'll explore a variety of programming languages, from the drag and drop Scratch to Python. Both of these languages have a wide range of practical applications, and we'll spend time exploring those too. Join us to establish a solid foundation in coding, and be ready for web development, web application development, and much, much more! [Grades 3-6 and Grades 7-12]

## **CYBERSECURITY AND CRYPTOGRAPHY: AUGUST 7-11 (1 WEEK)**

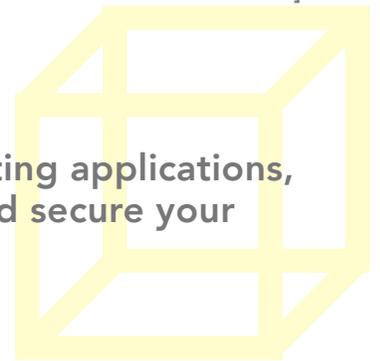
We live in a world where the security of data is crucial, whether that data is personal (health, educational and financial records) or commercial (trade secrets, patents, and sales data) or military (preparedness and battle plans). The challenges to encrypting data and keeping it secure are many. Learn how to protect information from theft or damage while maintaining critical functions. Learn encryption techniques to put you at the forefront of this rapidly developing field. [Grades 6-12]

## **ROBOTICS: AUGUST 14-18 (1 WEEK)**

This course can be taken independently or as a continuation from June 26-30. Students will build robots and program them for competition, and engage with others in a battle of the bots. The VEX platform supports learning the electronics, programming and building of robots and the development of unique designs. More expert students will be able to use the lab's extensive resources to advance their knowledge of programming, robot manufacture and electronics. [Grades 3-6 and Grades 7-12]

**We are now accepting applications,  
so sign up early and secure your  
space today.**

**Contact Tamika at:  
[tdecambra@stem3academy.org](mailto:tdecambra@stem3academy.org)  
or 818-623-6386 to sign up.**



**Culver City  
Summer Programs  
also available!**



**6455 Coldwater Canyon Ave. Valley Glen, CA 91606**

**[www.stem3academy.org](http://www.stem3academy.org) | [www.thehelpgroup.org](http://www.thehelpgroup.org)**