About the Course

COMPUTER SCIENCE DISCOVERY/STEMS is a Semester elective course that backs up to Business Tech for the other semester and is offered to 7th/8th grade students. Students enrolled in this course will learn STEMS curriculum focusing on phone app design, game design, programming, CAD design (Computer Aided Drawing), exploring electronic circuitry and micro computer programing and robotics using an Arduino. This is a "hands on" course intended to expose students to the world of STEM and Computer Science and to prepare them for more specialized concepts introduced at the high school level and beyond. As education prepares students to be citizens in a global society, students will exercise the 21st century skills of collaboration, creativity, communication, critical thinking, and character as part of our regular classroom practice.

Materials

All materials and skill-building software will be provided to each student for use in the computer lab. Most of the work is online cloud based and students can catch up or work ahead at home if needed. The computers do not have external speaker and **for hygiene** safety, **we are asking for students to bring in their own headphones/ear buds to be used when watching individual video instructional tutorials. Please bring in an inexpensive pair that the student can keep in their backpack.**

Donations

Elective courses, including Computer Science Discovery, relies heavily on donations from parents and the community to help offset the cost to replace items or replenish hardware used in the lab. **When working with the Arduino microcomputer there are lots of tiny parts that can and get misplaced and need to be replaced to keep the project kits complete and the suggested donation for the of $5.00 would help to make and keep the learning experience amazing for all.** If you would prefer to donate an item instead, please send me an email of what you would like to donate, and I will let you know if it is needed at this time. Your donation is much appreciated!

Grading Policy: This course will assist students in earning 10 credits toward the promotion requirements.
Grading will be based on the following criteria:

> **Categories**: Projects, Classwork/Exploration, Homework
> **Grading Scale: A** =100-90%   **B** = 89-80   **C** = 79-70   **D** = 69-60   **F** = 59 and below
> **Projects** - The projects will be worth various point totals, depending on the amount of time needed to complete the project and skill required.
> **Daily Work** - The students will be working daily on assignments. Participation and completion of their daily work will be given points.

Mr. Day's Contact Information

Conference: Period 1 – 8:00 am. – 8:43 am., except late start Thursday – 8:50am. – 9:28 am.
If you would like to contact me via e-mail, please use the following address: **day_ru@auhsd.us**
If you would like to speak with me directly, please call before or after school or during my conference period at 714-220-4201.

I have read this Curriculum Letter for COMPUTER SCIENCE DISCOVERY and understand the course requirements.

_____   _____
 Student Signature   and   Date   Print Student Full Name   and   Period

_____
 Parent/Guardian Signature