



**Reseda High School  
Law and Public Service Magnet  
Instructor: Mr. Flores**

## **Exploring Computer Science and Legal Communications**

### **Course Description**

Using the California State Standards for Computer Science as a guide, students will acquire fundamental knowledge in computers, including software, the Internet, graphics, publishing and available research tools. The goals of Exploring Computer Science are to develop the computer science skills of algorithm development, problem solving and programming. Students will also be introduced to topics such as interface design, limits of computers and social and ethical issues of software engineering. Also, the class will help students develop an understanding about the connections between technology and law and public service.

### **Fall 2013**

### **Topics of Instruction**

#### **Unit 1: Human Computer Interaction**

##### **Standard 1: Basic Operations and Concepts**

1. Basic Skills Review
2. Explore the concepts of computer and computing
3. Terminology of hardware components
4. Function of the parts of computer
5. Explore the web
6. Concept of computer program as a set of instructions
7. Explore computers and communications
8. Computer information storage
- 9. Searching: Types of laws**

## **Unit 2: Problem Solving**

### **Standard 2: Technology Tools**

1. Introduce the four steps problem solving
2. Apply problem solving process
- 3. Internet Issues: Identity Theft Law**
4. Encryption and information privacy
5. Crime Maps: Assault and battery law
6. Linear and binary search algorithms

## **Unit 3: The Web (understanding the internet)**

### **Standard 3: Productivity Tools**

1. Responsibility in web use
- 8. Safety-Privacy: Consumer Protection Law**
2. Examine various web applications
3. Concept of free web application
4. Introduce the use of basic html and css markup
5. Explore image editing
6. Use styling tables in html
7. Introduce to Javascript
8. Introduce several web user interface elements (html, css, photoshop)
9. Explore javascript and the use of random numbers

## **Unit 4: Multi-Media Tools**

### **Standard 5: Technology Productivity Tools**

1. Introduction to imovie
2. Create movie trailers with imovie
3. Create your own movie with imovie
- 4. Copy Rights Laws**

## **Unit 5: Multi-Media Tools**

### **Standard 5: Technology Productivity Tools**

1. Introduction to iphoto
2. Use iphoto to edit images
3. Introduction to Pixelmator
4. Use Pixelmator to Create Digital Art
- 5. Digital Media Laws**

Final Project

**Spring 2013**

**Topics of Instruction**

**Unit 6: Multi-Media Tools**

**Standard 5: Technology Productivity Tools**

1. Introduction to photoshop
2. Use adobe and apple apps to develop digital art for IOS apps

**3. Digital Media Laws**

**Unit 7: Multi-Media Tools**

**Standard 5: Technology Productivity Tools**

1. Introduction to Illustrator
2. Use Illustrator to create digital art

**3. Digital art Laws**

**Unit 8: Publishing**

**Standard 5: Technology Productivity Tools**

1. Introduction to Ibooks Author
2. Create your own digital book

**3. Digital Publishing Laws**

**Unit 9 : Introduction to Programming**

**Standard 4: Technology Productivity Tools**

1. Introduce code academy
2. Practice simple program
3. Practice the concept of event driven programming
4. Introduce to the concept of variable
5. Introduce to And, Or, and randomness
6. Write a simple program
- 7. Copy rights laws**

**Unit 10: IOS Programming/Robotics Programming**

## **Standard 5: Technology Productivity Tools**

1. Introduce the IOS features
2. Understand IOS development Kit
3. Introduce objective-c programming (using c++)
4. Introduction to IOS apps development
5. IOS Apps development
- 6. Publishing Laws**

## **Grading Policy**

Each assignment will be graded on a point basis which will be converted to percentages, which will then be converted into letter grades. If a student doesn't turn-in the assignment, they will be given a zero. No late or make-up work will be given for unexcused absences. A = 90-100%, B = 80-89%, C = 70-79%, D = 60-69%, F = 59% and below

15% Homework

70% Classwork

10% Tests and Quizzes

5% Dress Code

**Important:** I'm using the JupiterGrades website to post grades and homework for my students. You can login anytime to check your child's current grades, homework, missing assignments, test scores, and report cards. It's completely secure, so no one else can see your personal information.

## **Attendance, Cooperation, and Work Habits**

1. Respect
  - i. Each other (e.g. no rude language, talking when teacher or others are talking).
  - ii. Environment (e.g. computer lab, please don't bring food or drinks).
2. Follow school and Police Academy rules/policies at all times
  - i. You must be on time to class and ready to learn (3 warnings, parent contact, detention, etc).
  - ii. Bathroom passes 3 times each semester (only at appropriate times).
  - iii. Please do not bring electronics to class.
3. LAUSD Computer and Online Policy

## **Assignment Types**

\*Presentations \*Projects \*Quizzes \*Exams \*Homework \*Classwork \*Reading \*Research Reports  
\*Online Applications

### **NOTE:**

Challenge Yourself

Question the quality of your own work.

Ask yourself how you can improve the assignment.

Ask for help from the teacher or other classmates if you need it

### **Homework/Classwork Policy**

Assignments are assigned on regular basis. All student work must be of the individual student. CHEATING of any type will not be tolerated.

## **Reseda High School ESLRS**

Effective Communicators

Critical Thinkers

Self-Directed Learners

Responsible Citizens

Healthy Individuals.

Please feel free to contact me by email at [mlf0993@lausd.net](mailto:mlf0993@lausd.net) or call 818-758-3600 and I will return your message as soon as possible and we can discuss your child's progress.<sup>1</sup>

Teacher reserves the right to make necessary changes to the syllabus at any time.

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I have read and discussed this syllabus with my student, and understand the grading policies and procedures. My student and I understand what is required on a daily basis. My student and I understand the importance of attending class on time. My student and I also understand what is expected when a class period is missed.

Student Name: \_\_\_\_\_

Student  
Signature: \_\_\_\_\_

Parent Name: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

Date: \_\_\_\_\_ Home Phone: \_\_\_\_\_

Daytime contact (home or cell and number): \_\_\_\_\_

Evening contact (home or cell and number): \_\_\_\_\_

Email address: \_\_\_\_\_

Please print out a copy of **this page only**, and return only this completed page to Mr. Flores.