



Reseda High School Police Academy Magnet

Forensic Science

Instructor: Dr. Marianne Maki

Using a variety of forensic science laboratory techniques, students will analyze data and make observations in evaluating forensic science “evidence”. In order to enhance comprehension of core concepts students will be introduced to professionals from a variety of fields within forensic science. We will have various guest speakers throughout the year to enhance the curriculum and expose Police Academy cadets to the world of Forensic Science.

California Science Standards: Investigation and Experimentation

1a. Select and use appropriate tools and technology to perform tests, collect data, analyze relationships, and display data.

1d. Formulate explanations by using logic and evidence.

1c. Identify possible reasons for inconsistent results, such as sources of error or uncontrolled conditions.

1l. Analyze situations and solve problems that require combining and applying concepts from more than one area of science.

During the year we will be working with the following course outline:

- I. Basic science skill review
- II. The Crime Scene
- III. Physical Evidence
Group Presentations
*Crime Scene I
- IV. Crime Scene Processing Story Writing
- V. Glass and Soil
- VI. Organic and Inorganic Analysis
*Crime Scene II
- VII. Microscopy
- VIII. Hairs, Fibers and Paint
- IX. Fingerprints
- X. Tool Marks and Other Impressions
- XI. Document Examination
- XII. Forensic Toxicology, Serology and DNA
Group Presentations
*Crime Scene III
- XIII. Crime Scene Research-Diorama/Technology Project

Technology: Cadets will have access to and be given instruction in performing internet research which will allow students access to a variety of forensic science sites and information. Cadets will also have the opportunity to work with software designed specifically for use in forensic science. Presentation of a culminating multimedia project is also expected of all cadets.

Grading

All assignments are given a points value. Your grade is based on your total number of points as a percentage of the total points possible.

A>90%; B>80%; C>70%; D>60%; F<60%

Attendance, Cooperation and Work Habits

All students are expected to attend class daily. This is a laboratory based class and missed days will result in missed laboratory activities that cannot be made up. Any laboratory or class assignments that are missed due to excused absence will be made up with a written and oral report to be decided at my discretion and must be completed within three days of returning to school.

Exams must be made up the day you return to school. Missed quizzes will result in a zero with the following quiz counting double. Missing more than two quizzes in a semester will result in a written and oral report on the quiz subject matter for each missed quiz. Quiz make-ups must be turned in within one day of returning to school.

Cooperation and respect are expected at all times. Compliance with laboratory and classroom rules is required. Deviation from behavior requirements will result in class suspension.

Assignment Types

*Oral Presentations *Projects *Laboratory Reports *Exams *Quizzes
*Reading *Research Reports *Homework *Written Practice

Homework Policy

Homework is assigned on a regular basis. You should expect to have either written homework or reading homework. I STRONGLY recommend that you review/study/complete laboratory reports and other assignments. Even if you do not have written homework, you will ALWAYS have homework in Forensics...reading.

All student work must be that of the individual student. CHEATING of any type will not be tolerated. This applies to ANY and ALL assignments. Any incidence of cheating will result in parent conferencing, a zero on the assignment (for all students(s) involved) and a "U" in both work habits and cooperation on the 5, 10, 15 and 20 week report cards.

Reseda High School ESLRS

In my class, students do much of their work in cooperative learning groups. I believe this type of activity helps students to learn how science is really done helps students achieve the Reseda High School ESLRS:

*Effective Communicators *Critical Thinkers *Self-Directed Learners*Responsible Citizens*Healthy Individuals