



## **Chemistry-P (Course QCS250)**

**1 Year (10 Credits)**

### **Course description**

Chemistry" is a two-semester course covering inorganic chemistry, which is designed to meet the needs of students pursuing a science major in a university or college. The course encompasses the following major areas: Introductory Laboratory Skills, Atomic and Molecular Structure, Chemical Bonds, Conservation of Matter and Stoichiometry, Chemical Thermodynamics, Reaction Rates. Chemical Equilibrium, Acids and Bases, Gases and Their Properties, Liquids, Solids and Solutions, Oxidation and Reduction and Electrochemistry, Organic and Biochemistry, and Nuclear Processes. These major areas will overlap to reemphasize and build a sound foundation. The laboratory portion will correlate with the instructional units of the course. This course meets the "a-g" requirements for the University of California. It is also aligned with California Science Content Standards for Chemistry

### **Contact Information:**

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**Textbook:** *Chemistry: Matter & Change* (Glencoe/McGraw Hill) c. 2005

### **Required Materials:**

- 2-inch Three-Ring Binder (with 4 dividers and lined paper for warm-up section). Tabs are labeled as follows: Warm-up Tab, Binder Tab, Turn in Tab, Class/Project Info Tab
- Colored Pencils
- Highlighter (2)
- *Pencils, Erasers, Pens (Black/Blue ink only)*
- *USB Flash Drive*

### **Grading Policy**

Grades are weighted as follows.

- |  |                      |
|--|----------------------|
| • Classwork/Assignments/Binder Check (25%) | A = 90-100%          |
| • Laboratory & Research Activities (25%)   | B = 80-89.9%         |
| • Quizzes/Chapter Tests (30%)              | C = 70-79.9%         |
| • Final Exam (20%)                         | D = 60 – 69.9%       |
|  | F = 59.9 % and below |

## **Course Outline**

- Introductory Lab Skills
- Atomic and Molecular Structure
- Chemical Bonding
- Conservation of Matter & Stoichiometry
- States & Properties of Matter
- Chemical Equilibrium
- Acids & Bases
- Chemical Thermodynamics
- Reaction Rates
- Nuclear Processes
- Organic & Biochemistry
- Oxidation/Reduction & Electrochemistry.

## **Course Objectives :**

In addition to the topics mentioned above, students will learn academic reading, writing, and speaking skills. Students will use inquiry and critical thinking skills to solve problems.

## **Late work vs. Make Up Work.**

**Late Work**: If you were in attendance, were aware of the assignment(s), and simply did not do it or waited until the due date or after to do it, it is LATE! Late work will be issued a 20% per day deduction until the grade reaches zero. It is unfair to those students who do their work on time. With total amount of students, feedback must be given in a timely manner.

**Make-up Work**: Students with a verifiable excuse will be given the opportunity to make up their work. If a student is suspended or an absence is unexcused, makeup work will NOT be provided and a zero grade will be issued. Students can get their make-up work by:

1. Checking my website (where you can get information & download material).
  2. Accessing the worksheets in class.
- Students have the length of time that they were absent to make up their work. (e.g. if you were absent one day, you have one day to make up the work and turn it in; two-days absent, two days to submit, etc.).
  - This goes for all excused absences, field trips, illness, family emergencies, and sporting/academic events,
  - Please complete a "make-up" work form and staple to your make up work.
  - I update grades in Infinite Campus weekly. Please check on Mondays for the most recent grade. If you want good feedback, it takes time for me to provide it.
  - Tests & Quizzes are announced in advance; If absent, makeups must be done at lunch or after school within two days of your return.

***Need help? I am available after school 3:30-4:30 p.m. Mondays. You can also contact me via email.***

## **Academic Expectations**

1. Be prepared and on time every day: at your desk when the bell rings, doing warm-up and writing agendas. Bring binder and materials daily. Bring text when assigned.
2. Cell phones are NOT allowed unless given permission. Otherwise, I don't want to see nor hear it. If that happens, your phone will be confiscated and sent to the VP's office. Your parent/guardian will have to retrieve it.
3. No Food or Drinks! - This is a laboratory classroom. Due to the exposure of chemicals, no food or drink allowed. A closable water bottle may be used at your desk.
4. Be respectful of your fellow classmates and the teacher.
5. Practice Academic Integrity. Plagiarism, Cheating, and Dishonesty will not be tolerated. Zero grades will be issued.