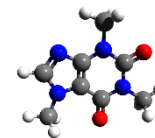


Pre-AP Chemistry Syllabus 2022-2023



Instructor	Room	Email	Tutorial
Mr. Qing Jie	N217	Qing.Jie@houstonisd.org	Wednesdays-11:30-12:00 Fridays-12:00-12:30
Mrs. Sonia Rodriguez	N126	Srodrig6@houstonisd.org	Mondays and Tuesdays 12:03-12:33
Mr. Jahir Tamayo	S226	Jahir.Tamayo@houstonisd.org	Fridays 11:11-11:21
Mrs. Destini Texada-Jackson	N129	Distini.Texada@houstonisd.org	Tuesday and Wednesday 11:30-12:00

Required Supplies

- ✓ **Notebook**
- ✓ **Pocket folder**
- ✓ Pencils/Pens
- ✓ Scientific Calculator (TI-30X/Casio FX-115ESPLUS or higher)

Students will NOT be allowed to:

- ✓ **Use their cell phones as calculators.**
- ✓ **Share calculators with another student during quizzes and tests.**

Test Days: Science classes test on Mondays or Wednesday/Thursday block days.

Grades

Major Grades (70%): Tests, selected labs, projects, and other assignments as designated. There are generally 3 major grades given each cycle.

Minor Grades (30%): Daily grades, quizzes, homework, selected labs, etc. 5-10 Minor grades are taken each cycle.

Retake Policy

- If a student **scores higher on his/her retake**, the retake grade will **replace** the original test grade (capped at 70).

Academy Honesty

If a student violates the Honor Code, he/she will receive a "0" for the schoolwork, a "U" in conduct, and disciplinary action (including loss of Off Campus and Extracurricular Activity privileges.) In addition, this conduct is considered a Level II violation of the Code of Conduct. No retake will be offered.

Course Policies Q&A

How important is attendance to success in Chemistry? Many of the topics taught in chemistry build upon each other, so it is important that all students attend class regularly. It is your responsibility to check PowerSchool and to ask for missing assignments if you are absent.

What if I'm absent the day of a major grade assignment? You will take the quiz or test on the day you return. Also, you will return any assignment that was due on the day you return. If you have been absent several days prior to an exam, it is YOUR responsibility to come see me on the day you return about a new test date/time.

What about homework? All assignments must be turned in at the beginning of class on the day they are due. **LATE ASSIGNMENTS WILL BE ONLY ACCEPTED the following day it was due OR after attending a tutorial section (see list above) to do and finish the work in the tutorial.** In BOTH cases, the work will receive a **20 points penalty** In the event of a missed assignment due to an absence, 1 day per absence will be provided to turn in missed work.

Do you have tutorials? Feel free to visit any Chemistry Teacher for help. Chemistry Tutorial schedules are posted in each chemistry teacher's classroom.

What do you expect in terms of student conduct? Students are expected to follow laboratory safety rules, HISD's code of student conduct, and any conduct rules established in class. This includes a strict "no cell phone" policy during class time unless special permission is granted by the teacher.

Pre_AP Chemistry Course Objectives

I. Safety and Scientific Measurement

- A. Lab safety
- B. Materials Safety Data Sheets
- C. Lab equipment
- D. Scientific measurements
- E. Dimensional analysis
- F. Density
- G. Accuracy and precision

II. Structure and Properties of Matter

- A. Particle view of states of matter
- B. Energy transference between heating and cooling of matter
- C. Phase changes and particles interactions
- D. Kinetic Molecular Theory
- E. Properties of gases

III. Chemical Bonding and Interactions

- A. Physical properties of matter due to intermolecular forces among particles
- B. Classification and interaction of matter-distinguish between atoms, molecules, and compounds at the particle level
- C. Molecular structure and properties due to periodic properties and bonding patterns of atoms.
- D. Lewis dot Diagrams
- E. VSEPR theory
- F. Covalent and Ionic Bonding nomenclature

IV. Chemical Quantities

- A. Counting particles in substances-mole concept
- B. Ideal Gas Law
- C. Law of Conservation of Mass-balancing chemical equations
- D. Counting particles in chemical reactions
- E. Limiting reactant concept
- F. Calculations of percent yield in chemical reactions.

V. Chemical Transformations

- A. Driving forces in chemical reactions
- B. Transference of energy in chemical reactions: Precipitation, Oxidation-reduction, Acid-base
- C. Molarity as unit of concentration of solutions
- D. Reactions rates