

Kemper Academy
Chemistry I and Advanced Chemistry

Teacher Info:

(Mrs.) Iva Lou Cumberland

ilcumberland@kemperacademy.com

B.S. Degree in Biology (Pre-med curriculum), Millsaps College

Thirty-three years at Kemper Academy

Goal: For a complete college-prep class, this encompasses two years – usually juniors and seniors since Algebra I is a prerequisite. My goal is to prepare the students for college and make their transition into those classes an easy and less stressful advancement. Even if not college bound, I hope that students would take this course to have a well-rounded high school experience.

Focus: Measurements and calculations in Chemistry, dimensional analysis, density, energy, matter, atomic theory (history and modern discoveries), moles, atomic models, periodic table and trends, bonding, nomenclature, chemical equations (recognizing specific reactions, predicting products, balancing, limiting reactants), kinetic molecular theory (gases, liquids and solids), solutions, colloids, suspensions, solution concentration units, colligative properties, acids and bases, equilibria, redox, nuclear chemistry, carbon and organic compounds, appropriate laboratory exercises in each study.

Supplies: a 2" binder that will contain all the graded work, handouts and notes. This binder will not be taken up and graded as I hope that it will be used as a reference for them in later advanced studies; a TI-83 calculator, #2 pencils (no ink, please—lots of math and math should not be done with ink) and notebook paper.

Grading Scale: The final grade will be calculated as follows:

- Fall Semester Grade: 50%
 - 50% First Nine Weeks, 50% Second Nine Weeks
- Spring Semester Grade: 50%
 - 50% Third Nine Weeks, 50% Fourth Nine Weeks

Each nine weeks grade will be calculated as follows:

- Classwork: 15%
- Homework: 15%
- Subject Quizzes: 50%
- Nine Weeks Test: 20%