Chemistry

Course Syllabus

Instructor: Alli Leatherman, alli.leatherman@gmail.com

Required Text: *General Chemistry* by John D. Mays (1st or 2nd edition acceptable); Optional: *Student Lab Report Handbook*, by John D. Mays; Solutions manual to accompany text (answers to practice exercises are given in the text, but the solutions manual includes full solutions)

Note: the accompanying lab text is not required.

Other Supplies: Each student should have a calculator capable of doing logarithms and scientific notation (scientific or graphing calculator will suffice); each student should obtain a pair of chemical splash safety goggles to be worn during experiments

Prerequisites: Algebra I at minimum; Algebra II preferred (or concurrent enrollment)

Course Times: Class will meet two days a week for one hour. Students should expect to spend 0.75 -1.5 hrs each non-class week day to complete course work.

Fees: Monthly tuition: $50/month (or $200/semester or $400 for full year); one-time supply fee: $60. Payments will be made directly to the instructor via check or PayPal at the email address given above.

Course Description: This course serves as an introduction to inorganic chemistry. Topics will include the atomic model, chemical equations, stoichiometry, chemical reactions, and acids/bases. Laboratory experiences will be included. Students will use inquiry-based experiments as well as mathematical models to explore concepts. Besides chemical theory, students will become familiar with basic laboratory safety/techniques as well as scientific measurement and significant figures.

Honors Distinction: Students who wish to seek honors credit for the course should contact the instructor prior to or during the first week of classes. If approved, an honors student will be given supplemental, advanced work throughout the year to gain honors credit.

Canvas: Much of the communication for class, including weekly assignments and quizzes, will take place using Canvas, an online learning management system. Students should provide the instructor with a personal email address. An invitation will be sent to that email for students to join the course. Parents are welcome to submit an email as well to be added in an observer role. Please note that students will need reliable internet access on a regular basis.

Grading: Students will have a cumulative quiz each week. Students will also turn in formal lab reports for experiments. One semester exam will be given in the fall and spring. Grades will be determined as follows:

Weekly Quizzes-- 50%

Lab Reports-- 30%

Semester Exam-- 10%

Participation in Class/Completing Practice Problems-- 10%

A cumulative grade will be given in the fall and spring semester.

Late Work: Excused late work due to absence, illness, or extenuating circumstances approved by instructor will be accepted. If a student is absent on the day an assignment is due, they may turn it in at the next class meeting without penalty.

Unexcused late work will be accepted on a limited basis at instructor's discretion. Unexcused late work will be subject to the following policy:

-Work turned in less than one week from original due date: 10% off

-Work turned in between one and two weeks from original due date: 30% off

-Work turned in more than two weeks from the original due date may not be accepted. If it is accepted, it will be subject to 50% off.