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 Tuesdays and Thursdays from 2:00-3:00 pm. Students should expect to spend 0.75 -1.5 hrs each non-class week day to complete course work.

Course Dates: August 6-April 30 (Possible make-up week May 5 and/or 7)

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 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.

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 grade will be given in the fall and spring semester. The fall grade and spring grade will then be averaged to determine a final course grade.

Grading scale:

90-100: A

80-89: B

70-79: C

60-69: D

Below 60: F