

WHEELER HIGH SCHOOL COURSE EXPECTATIONS

Academic Chemistry

Junior level

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Room Number 130

I. Course Overview:

Chemistry is a science that deals with matter; its composition or changes in composition. As a college-preparatory course it covers areas such as: atomic/molecular structure, chemical bonds, conservation of matter & stoichiometry, reaction rates, organic chemistry & biochemistry. The course is geared toward the more independent student needing a very rigorous approach that will prepare them for medicine, engineering or other science-related careers. Each topic will be reinforced with laboratory experiments, inquiry-based activities or projects. Students taking this course are eligible to earn Three River Community College credit.

II. Overall Course Objectives (from curriculum):

- Lab Safety & Techniques
- Matter & Its Properties
- Scientific Measurement
- Atomic Structure & Electron Configurations
- Periodic Table
- Chemical Bonding
- Chemical Formulas & Compounds
- Stoichiometry
- Gas Laws
- Solutions & Colligative Properties
- Acids, Bases, pH & Titration
- Thermochemistry
- Organic Reactions

III. Material Required:

Textbook – Modern Chemistry (2012), a large binder with sections for note-taking and practice work/homework, and handouts. In addition students need a calculator – use of cell phones for this purpose, **are not acceptable**. The calculator needs to do the four basic math functions, log and scientific notation. A graphing calculator is **not** required.

IV. Class/Behavior Expectations:

Students are expected to attend class, be on time, be prepared, actively participate, work independently to complete the assigned work to the best of their abilities and get along with others. Students are expected to come for extra help as needed or suggested by the teacher. If a student is absent he/she is asked to check his/her weekly syllabus to stay on track with the material. Students are responsible for any missed work due to absence or illness; this **does** include labs and class activities. Labs must be made-up afterschool or during study hall, **within two school days of the missed lab**. Each student should select a trustworthy member of the class to contact in order to obtain any missed notes. Feel free to contact the teacher via email if absent for more than one day.

V. *Grading Policy (percentages, total points, etc.):*

Grades are determined by the accumulated point method. Each assignment, quiz, test, project, etc., is worth a specific number of points. Points will also be given for laboratory technique and participation. Final grades are determined by comparing the number of points attained with the number of points offered.

VI. *Academic Integrity Statement*

The faculty and administration of Wheeler Middle/High School demand high standards of academic performance and academic honesty. Anything less would jeopardize quality education and allow students to deny themselves needed skills and knowledge. For this reason students who cheat on their assigned work, reports, research papers, quizzes, tests or examination risk prompt and punitive action by both their teacher and the school. Examples of violations may include, but are not limited to:

- Giving or receiving aid on tests and graded assignments
- Unauthorized talking during tests
- Copying regular homework/exercises
- Unapproved discussion of examinations/assignments contents
- Cheating on peer reviews of student work
- Misuse of technology

VII. *Teacher Availability for Extra Help (Day and Time):*

- During Break
- Afterschool until 2:35 (except first Wednesday of the Month) – no appointment needed
- Afterschool until 3:00 – by request

VIII. *Wheeler High School Academic Expectations met by this course: Analysis*

Performance Indicators	Descriptor
Usage of Resources	<i>Able to select a variety of appropriate resources/strategies to use to arrive at a solution for a question, task or problem</i>
Application & Analysis	<i>Analyzes key information, questions/tasks and problems, and makes inferences based on background knowledge, observations and/or information to arrive at a solution</i>
Organization & Evaluation	<i>Evaluates according to a given set of criteria and collects, organizes and communicates information in an appropriate format</i>
Synthesis & Reflection	<i>Evaluates process and validity of results to create new ideas and/or draws appropriate conclusions based upon knowledge and experiences from several areas</i>
Utilization of Technology (if applicable)	<i>Demonstrates an appropriate use of technology to address an objective or task when applicable</i>

Exceeding (4)	Went above and beyond the expectation	Work was completed independently	Y	N
Attaining (3)	Met the expectation			
Emerging (2)	Approaching the expectation	Assessment at grade level	Y	N
Beginning (1)	Expectation yet to be attained			