



Course Name	Instructor	Instructor E-mail & Availability
Chemistry	Bruce Miller	RBMILLER@aps.k12.co.us
Course Website	Class Meeting Times & Location:	Prerequisites
	Monday – Friday Room 391	

Course Description

- In Chemistry at ACHS, students learn key content and concepts, conduct laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving.
- Students will come to understand that Chemistry is an integral part of our daily lives. It is also an excellent preparation for College!

Standards

- Matter has definite structure that determines its characteristics Physical and Chemical Properties.
- Matter can change form through chemical or nuclear reactions abiding by the Law of Conservation of Mass.
- Atoms bond in different ways to form Molecules and Compounds that have definite Chemical and Physical Properties.

Learning Outcomes

- Use the Periodic Table as a model to predict the relative properties of Elements based on the patterns of electrons in the outermost energy level of Atoms. (CAS HS Physical 1.2, 1.3, 1.4)
- Construct and revise an explanation for the outcome of a simple Chemical Reaction based on the outermost electron states of Atoms, trends in the Periodic Table, and knowledge of the patterns of chemical properties. (CAS HS Physical 1.2, 1.3, 1A)
- Use mathematical representations to support the claim that Atoms, and therefore Mass, are conserved during a chemical reaction (CAS HS Physical 1.2, 1.3)
- Develop models to illustrate the changes in the composition of the nucleus of the Atom and the energy released during the processes of fission, fusion, and radioactive decay. (CAS HS Physical 1.3, 1.4)
- Develop a model to illustrate that the release or absorption of energy from a chemical reaction system depends upon the changes in total bond energy (CAS HS Physical 1.4, 1.5, 1.6)
- Plan and conduct an investigation to provide evidence that the transfer of thermal energy when two components of different temperature are combined within a closed system results in a more uniform energy distribution among the components in the system (Second Law of Thermodynamics). (CAS HS Physical 1.2, 1.3, 1.5, 1.6)

Required Supplies

- Pocket Folder (Supplied by the Teacher!)
- Pen or Pencil

Grading

Students will be graded on a 4 point scale for all assignments

Point	Letter Grade	Explanation
3.0-4.0	A	In addition to the performance score of 3.0, the student demonstrates in depth inferences and applications that extend beyond what was taught.
2.5-2.99	B	There are no major errors or omissions regarding any of the information and/or processes (simple or complex) that were explicitly taught. This level is mastery
2.0-2.49	C	There are no major errors or omissions regarding the simpler details and processes, but there are major errors or omissions regarding the more complex ideas and processes.
1.0-1.99	D	With help, the student demonstrates a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.
Below 1.0 or No Evidence	F	Even with help, the student cannot demonstrate understanding of the simple details.

School Policies

REQUESTS FOR HOMEWORK

Students requiring homework assignments due to extended excused absences (three days or more) should initially contact the attendance office. The attendance office will notify teachers and collect assignments from individual teachers. Assignments should be ready for pick up 24 hours after a request has been made. Please call the attendance office to check homework status.

MAKE-UP WORK DURING ABSENCES

Any time a student misses a class for any reason whatsoever, that student will be expected to contact each teacher and complete the make-up work in order to achieve the learning objective. This includes field trips, school activities, suspensions, group sessions, trancies, and the like. Make-up work is required and students who have been absent from class must request make-up work from the teacher no later than the next class meeting. Teachers will determine a reasonable amount of time for make-up work when students are absent, using a two days for every one day absent guideline.

Teachers may provide an "alternative" learning experience for make-up work to any student who requests it upon returning to class. For example, a student may have been absent from a class at which the daily learning objective was achieved by means of a class discussion. At the teacher's sole discretion, students who were absent during that discussion might be assigned a two or three-page written essay due three or four days after the student's return to class as an 'alternative' learning experience for that objective.

Teachers will give academic credit to all make-up work that complies with the above guidelines. The only exception is that teachers have the choice whether or not to give academic credit to the make-up work from an unexcused absence. If the absence was unexcused, the teacher should provide feedback but is not required to give credit for the work.

TARDY POLICY

After three tardies teachers will conference with the student and contact home. After 5 tardies students can be referred to the Learning Center and additional consequences may be assigned.

PASSES

Students who leave the classroom or are excused from class must have a pass with correct validation by the teacher. School officials may send for a student using an authorized Administrative Pass. Students who are without official passes will be subject to disciplinary action. Passes will not be given in the first 10 minutes or last 10 minutes of class.

NON-ACADEMIC TECHNOLOGICAL DEVICES

Aurora Public Schools believes in providing environments that optimize learning and teaching and are safe, secure, and well maintained. As such, all personal electronic devices* shall not be seen nor heard during the school day in academic areas of the building from 7:30 A.M. to 3:45 P.M. *Cell phones, iPods, headphones, portable speakers, MP3s, tablets, cameras, etc. **Aurora Central High School is not responsible for lost, stolen or damaged electronic devices.** This includes electronic devices that are confiscated by staff. Aurora Central High School reserves the right to not investigate lost, stolen or damaged electronic devices.

Classroom Policies

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QUIZZES & EXAMS: As we finish each Unit in the Course, you will be given a Quiz based on that Unit's Review Guide. You will have FIVE days notice of a Quiz. At the conclusion of each Quarter, you will be given an Exam over a basic core of material, including Assignments, Lectures, Labs and past Quizzes. You will have FIVE days notice of an Exam.

At the end of the Semester you will take a CUMULATIVE Semester Final Exam. In addition, we will also be working on an end of Semester cumulative Project for both Semesters.

ATTENDANCE: This class moves through the material quickly, so it is very important that you be in class as much as possible! Excessive absences will affect your grade and could prevent you from getting credit for the course. You are primarily responsible for finding out what work you have missed. You can do this by asking either your Lab Partner or me. Makeup Quizzes & Exams will usually be given at Lunch or after school.

ATTITUDE: This includes such things as having your Folder every day, pen or pencil and being ready to do your best in class. It also applies to NOT having food or drink in class and certain behavior problems, such as language.

Tear off and return THIS PAGE only and return to Mr. Miller.

I have carefully read the expectations of this course and agree to support the goals and initiatives of the course. I will show up, speak up, stand up and go further than I ever thought possible.

Student Name: _____(print)

Grade _____ Period _____

Student Signature: _____

Parent/Guardian Name: _____

Parent/Guardian Signature: _____

Parent/Guardian Phone Number: _____

Parent/Guardian Email: _____