



# Honors Chemistry Syllabus 2017-2018

Teachers: Mrs. Rebecca Bingham & Mrs. Laurie Rogers

Email: [binghamr@fultonschools.org](mailto:binghamr@fultonschools.org) & [rogersla@fultonschools.org](mailto:rogersla@fultonschools.org)



**Course Description:** The major principles, concepts and applications of chemistry will be reviewed while employing a hands-on approach to learning. This course is designed to prepare students for college-level chemistry and science related majors. For the specific Chemistry Georgia Standards of Excellence please refer to: <https://www.georgiastandards.org/Georgia-Standards/Pages/Science.aspx>. For science literacy standards, please refer to: [https://www.georgiastandards.org/Common-Core/Documents/CCGPS\\_9-10\\_SS-Science-Tech-Literacy\\_Standards.pdf](https://www.georgiastandards.org/Common-Core/Documents/CCGPS_9-10_SS-Science-Tech-Literacy_Standards.pdf).

## Syllabus Objectives

Unit	Unit Topics	Objective: To obtain, evaluate and communicate information about...	Corresponding Chapters in Text	Approximate Time (weeks)
1	Intro to Chemistry, Safety and Measurement, Atomic Theory, Periodic Table and Trends	Nature of science, scientific measurements, and lab safety, Use of modern atomic theory and periodic law to explain characteristics of atoms and elements. (SC1)	1, 3, 2, 4, 5, 25, 6	6.0
2	Nature of Matter, Bonding and Nomenclature	The chemical and physical properties of matter resulting from the ability of atoms to form bonds. (SC2)	7, 8, 9	4.0
3	Chemical Reactions, Moles and Stoichiometry	Use of the Law of Conservation of Matter to determine chemical composition in compounds & reactions. (SC3)	10, 11, 12	8.0
4	States of Matter, Kinetic Theory, Gas Laws, Thermochemistry	The Kinetic Molecular Theory to model atomic & molecular motion in chemical and physical processes. (SC5)	13, 14, 17	7.0
5	Water Systems, Solutions, Acids and Bases	The properties that describe solutions and the nature of acids and bases. (SC6)	15, 16, 19	6.0
6	Kinetics, Thermodynamics and Equilibrium	How to refine the design of a chemical system by applying engineering principles to manipulate factors affecting a chemical reaction. (SC4)	18	3.0

**Text:** *Chemistry*, Pearson Prentice Hall, 2008; (ISBN #: 0-13-251210-6). Replacement cost: \$81.00

**Materials (please bring daily to class):** textbook, 3-ringed binder with 5 dividers (labeled handouts, notes, homework/classwork, lab sheets, quizzes/tests), composition notebook for labs, paper, black/blue pens, #2 pencils, red pen, highlighter, scientific calculator.

## CLASSROOM RULES:

- Obey all school rules and follow behavior expectations.
- Be polite and respectful. Listen when someone else is talking. Respect other's property.
- Be prompt, prepared (with required materials), alert and ready to learn. Follow all class procedures.
- Unacceptable behavior during a lab or class activity will result in a grade of ZERO for that activity.
- No food or drinks** other than bottled water may be consumed in the science classroom. Nothing may be consumed in lab area.
- Cell phones may NOT be used in this classroom** and must be kept in backpacks during class, except during a supervised activity.



## CLASSROOM PROCEDURES:

**1. Student Responsibility:** You are expected to be respectful towards your teacher, classmates and the property of others. Being in an Honors class is a privilege, not a right. Correction of student misconduct will be according to Northview and Fulton County policy.

### 2. Grading Procedure:

Tests: 45%    Labs: 25%    Homework/Formative Assessments: 10%    Projects: 5%    Final Exam: 15%

**3. Seating Chart:** Every student will be assigned a place to sit in the class. Seating assignments will be changed periodically.

**4. Tardy Students:** Students must be in their seats and ready to begin when the bell rings. The tardy policy **per 6-week period** is:

1<sup>st</sup> Tardy: Written Reprimand

3<sup>rd</sup> Tardy: Administrative Referral & 2 days public detention

2<sup>nd</sup> Tardy: 1 day Private Detention

4<sup>th</sup> & Subsequent Tardies: Administrative Referral & 1 day Saturday Opportunity School



**5. Leaving the Room:** Students must use the time between classes to take care of personal matters. No student may leave the room during the first & last 10 minutes of class. No lining up at the door before the bell rings. A pass is required to leave the room.

**6. Student Participation:** Students are expected to pay attention and contribute to class discussion, activities and labs. This includes taking notes. Be an active learner. Do not be afraid to ask questions! If you don't understand something, please come in for help.

**7. Honor Code Policy:** As explained in the student handbook on [www.northviewhigh.com](http://www.northviewhigh.com), cheating is defined as “the giving or receiving, in any form, information relating to a gradable experience.” Violations of the honor code will result in a zero for the assignment, plus an honor code violation form placed in the student’s disciplinary file. Read the handbook carefully to fully understand what constitutes a violation. The Honor Code policy will be strictly enforced. For major assessments, a formal Honor Code statement will be signed. Upon teacher request, students may be required to email research papers to **turnitin.com**. The website checks the submission for plagiarism, and reports to the teacher that the student’s work was not copied from any source.

**8. Homework and Assignments:** Homework and Classwork will be assessed regularly. It may be graded based on effort/accuracy or in an open-homework quiz format. **You must show your work to receive full credit!** Classwork is comprised of activities that we do in class but are not labs. **In addition to assigned homework, students are expected to read each chapter in the textbook and to work extra chapter & review problems to develop skill in solving problems.**

**9. Late Work:** All work is due at the beginning of class on the date it is due. Late homework will be accepted on the NEXT day for 50% credit. Labs and projects will be accepted late for a penalty of 20% each day.

**10. Make-up Work:** **You are responsible for making up all missed work.** You have 1 day for every excused absence day to make up your work. After that time window, the grade will stand as a zero. If you are out the day of a test, lab or scheduled quiz, a grade of zero will be entered. This will be changed when the assignment is made up. Labs, tests and quizzes must be scheduled promptly with the teacher upon return. **Because this course is lab-intensive, you will have 1 calendar week to make-up any missed labs unless there are verifiable, extenuating circumstances.** Assignments issued prior to the absence, including tests and quizzes scheduled for the day of return, are due upon the student’s return. Students who are present for any portion of the school day are expected to turn in all assignments due on that day to receive full credit. An excused absence makes the student eligible to receive full credit for making up the work missed. Work missed for an unexcused absence will be accepted (within the appropriate time frame) but with a penalty for the unexcused absence. Extracurricular activities are not an excuse for not having time to do make-ups. Failure to make up a test or lab results in a grade of zero. See student handbook for more information. Make-up work is to be handed directly to the teacher.

**11. Missed Work:** There will be a “Missed Work” binder in the room. **It is your duty to check the binder and get the material (notes, homework, handouts) that you missed.** You will need to get class notes from a classmate. A good idea is to have a “study buddy” to copy notes from and keep you informed.

**12. Lab Experiments:** This is a **very lab-intensive** course. You will be required to maintain a bound lab notebook each semester that will document the lab experience according to specified requirements. You will be graded on lab tests, formal lab reports, informal lab reports, your lab notebook, and performance. It is critical that you listen carefully to instructions and perform the labs in a safe and accurate manner. Responsible lab behavior is expected of all students. Lab equipment is shared among all classes, so you will be responsible for paying for the replacement of any lab equipment that you break. **Splash goggles and closed-toed shoes are mandatory for all labs.**

**13. Literature Review / Projects:** A literature review is a required part of this Honors Science class. During the fall semester, all Honors Chemistry students will investigate a question in chemistry that relates to our curriculum, review the literature, and produce a report of their findings with parenthetical documentation and a works cited page. This assignment will count as 5% of the total grade. For the spring semester, an additional project(s) relating to chemistry will be assigned and will be worth 5% of the total grade.

**14. Help Sessions:** Extra help is available before & after school. Please see your teacher for group times or to arrange a time.

**15. Recovery Policy:** Recovery is for students who, despite a conscientious effort and communication with their teachers, have failed to demonstrate satisfactory understanding of course goals. It is not for the student who has been failing for many weeks and then wishes to recover during the final days of the course. Opportunities for students to recover from a 74 or below cumulative average will be provided when all work required to date has been completed and the student has demonstrated a legitimate effort to meet all course requirements. Students who have not attempted to complete all course requirements are not eligible for recovery. Students may initiate recovery on major assessments starting with the second major assessment of the semester as long as they have made a legitimate effort to meet all course requirements including attendance. Unexcused absences may prevent this opportunity. So that students stay focused on the content at hand and don’t become overwhelmed and fall too far behind, they must initiate recovery on a major assessment within five school days of being informed of the grade on that assessment. Recovery work must be completed within ten school days prior to the end of the semester. The nature and type of recovery assignment is given at the discretion of the teacher.

**16. Progress Reports:** Progress reports will be issued every six weeks. Parents/guardians may access their children’s assignments, grades, attendance, and discipline records via the Internet through **Home Access Center**. Please visit [www.northviewhigh.com](http://www.northviewhigh.com).

**17. Grading Scale:** A= 90 and above      B= 80-89      C=70-79      F= 69 and below

**18. Honors Points:** The student will receive 7 points added to his or her passing average which will appear in the overall GPA.