*Renaissance High School Science Department*

*Honors Chemistry*

***Instructor: Dr. C. Bridges***

**COURSE DESCRIPTION:** This course is part one in the Advanced Placement Chemistry Series. This course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. This course is designed for motivated student who have an interest in higher level science.

Advanced Placement Chemistry meets the objectives of a good general chemistry course. Students will attain a depth of understanding of fundamentals and reasonable competence in dealing with chemical problems. The course will contribute to the development of the students’ abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. The Advanced Placement Chemistry course is designed to be taken only after the successful completion of a first course in high school chemistry. The differences between college chemistry and the usual secondary school chemistry course are especially evident in the laboratory work.

**COURSE GOALS**: Upon completion of this course, the students will be able to:

 \*Increase their understanding in quantitative reasoning and problem solving skills.

 \*Read, write and talk about chemistry using college freshman chemical vocabulary

\*Visualize selected models of the atom and molecule, and the changes that occur in a chemical reaction.

\*Develop laboratory skills equivalent to those of college freshman chemistry.

**TEXTS**: Zumdahl, Steven and Zumdahl, Susan, *Zumdahl Chemistry*, 5th edition.

**LABORATORY MANUAL**: Vonderbrink, Sally Ann. *Laboratory Experiments for Advance Placement Chemistry.*

**COURSE REQUIREMENTS:** Attendance is mandatory. Homework will be assigned on a daily basis. Late homework will ***not*** be accepted. Students should spent a minimum of 45 minutes on Honors Chemistry each night. This amount of time is necessary in order to keep abreast of what is going on in class. *Ask questions immediately if something is said or done in class that is not understood.* Seek additional help if needed. Quizzes will be announced and unannounced. Unannounced quizzes (pop quizzes) may not be make up as a result of this; I will drop two quiz grades at the end of each semester. Makeup work is to be completed during a scheduled appointment. Test and announced quizzes may be made up with a written excuse. Test must be made up within two days upon the return of the student. A weekly assignment sheet will be posted. Each student will need a scientific calculator, a 2’ – 3’ plastic three ring binder with 5 dividers (dividers should have pockets and tabs), 2 red pens, 2 blue or black pens, planner, and 100 set carbon spiral bund lab notebook. Each student will be assessed a $20 lab fee.

**Laboratory:** Lab sessions are 90 to 120 minutes depending on the rotation schedule. All Laboratory experiments are to written up formally in the spiral bound carbonless laboratory notebook. All students are to complete a formal prelab write up before each experiment (title, purpose, materials, and procedure). Upon completion of the experiment the students are to complete the formal lab write up (data, observations, questions calculations, graphs and conclusion.

**ORGANIZATION OF BINDER:**

First Page: Record of chemistry grades (MANDATORY)

Second Page: Syllabus

First Section: Class Notes

Second Section Classwork/Homework

Third Section: Daily Journal

Fourth Section: Current Events

Fifth Section: Returned Papers (Quizzes and Tests)

 **NOTE: All pages should be dated and kept in chronological order.**

**GRADING SYSTEM:** 100% - 90% A

 89% - 80% B

 79% - 70% C

 69% - 58% D

 57% & BELOW F

**DISTRIBUTION OF CREDIT:** Credit can be earned in the following areas.

 TEST 35%

 LABS 30%

 QUIZZES 20%

 HOMEWORK/CLASSWORK 15%

***HONORS CHEMISTRY CLASS AGREEMENT***

I\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ understand and agree that:

I must be punctual in arriving to class.

I must attend class regularly, unless otherwise excused in advanced.

I will inform Dr. Bridges if I must be excused from class because of illness.

I must behave in a respectful manner.

I must devote an average of 30 minutes per day of study time to Honors’ Chemistry. (This does not include the time needed for the homework).

I understand that I will be required to attend (lunch, before and after school tutorial/study, test and laboratory sessions) in preparation for the class.

I understand that I must adhere to this agreement in order to obtain optimal success in the class.

**To the Parent**: This is a challenging course. Success in this course requires consistent daily work on new material and review of class notes. Please encourage your child to keep up with the course material. If he or she is having difficulty, tutoring is available both before and after school. Please feel free to email me at cynthia.bridges@detroitk12.org if there are any questions/concerns regarding the syllabus. I look forward to working with you to make this a rewarding experience for all.

Please sign and return the lower portion of the form to indicate you have read the syllabus.

I have read and understood the syllabus Honors Chemistry.

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Parents Signature Students signature Date

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Parent’s cell number Parent’s work number parents email