

# CHEMISTRY IN THE EARTH SYSTEM

## Mr. MAPPLEBECK

### Chemistry in the Earth System 1P & 2P Syllabus

#### **COURSE DESCRIPTION**

Chemistry in the Earth system is a (college preparatory) two-semester course designed to meet the needs of students pursuing a major in a University or College. It integrates the concepts of Chemistry and Earth science linking cross-cutting concepts to make them more relevant to the students.

The course will meet the A-G requirements for the University of California and the California State University systems. To meet the **minimum** qualifications for these colleges, a grade of C or better must be achieved. The course is strictly aligned with the Next Generation Science Standards (NGSS) that have been adopted by our state.

The course encompasses the following major areas in a storyline format: Atoms, Elements, and Molecules, Chemical Reactions, and Combustion (1P), Heat and Energy in the Earth System, the Dynamics of Chemical Reactions and Ocean Acidification, and the Chemistry of Climate Change, and (2P).

The laboratory portion of the course will correlate with the instructional units rounding out the course.

Prerequisite for this course is Math 1 (or Algebra 1) with a grade of C or better completed prior to taking this course.

#### **SAFETY REQUIREMENTS**

The students enrolled in this course will, by necessity, be handling potentially dangerous chemicals as they conduct the various experiments in the program. It is necessary that all safety precautions involved in using such chemicals be observed. It is essential, therefore, that laboratory procedure be followed according to teacher instruction and that the **dress code** is adhered to on a daily basis.

Students should use common sense when handling chemicals and hot equipment including burners and glassware, and be knowledgeable of the location of safety equipment in the laboratory. Students should follow procedure for disposal of hazardous chemicals and always keep solid waste out of the sink.

#### **EVALUATION**

|                                   |            |
|-----------------------------------|------------|
| Lab Reports and Assignments       | 35%        |
| Unit Exams and Quizzes            | 30%        |
| Class Participation               | 5%         |
| Final Exam (End of each Semester) | 20%        |
| Lab Quizzes                       | <u>10%</u> |
|                                   | 100%       |

Students and Parents have access to grades and missing assignments by logging on to: **Scusd.edu** and following the links to the grade reporting system.

#### **GRADING SCALE**

To insure success for all students, the following modified grading scale will apply for all course assessments:

|   |         |
|---|---------|
| A | 85-100% |
| B | 75-84%  |
| C | 65-74%  |
| D | 60-64%  |
| F | <59%    |

#### **TEXTBOOK**

Holt Modern Chemistry 2006 ed.

In addition to this textbook, material will be supplemented or substituted on an on-going basis.

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### ATTENDANCE

Regular attendance is absolutely necessary. Poor attendance will jeopardize your chance of obtaining credit. Attendance will be monitored closely. Your parents may be contacted by telephone or letter to discuss your absence and progress in the class. **You** are responsible for obtaining the notes, labs, handouts, and assignments missed during your absence. If you are absent on a test day you must make arrangements to write the test **immediately** upon your return by contacting the teacher as soon as possible. Tests that are not written within 5 days of returning to school will be issued a null score (zero). Special arrangements may be made for students that are on an excused extended absence (with administrative approval.)

### HOMEWORK

It is imperative that all homework and reading assignments be completed before returning to class. Homework will be checked regularly & a record of incomplete assignments will be kept. Points will be deducted for incomplete and late assignments. Your parents may be contacted when your homework is not done. All assignments should be completed in order to ensure that credit be obtained in the class. Students and parents may access daily homework by logging on to **www.wcscience.com** and clicking on the chemistry icon.

### MATERIALS

Large ring binder, lined paper, a composition notebook, a flash memory drive for saving student work while using school computers, graph paper, 3-tab folders, pens, pencils, a white eraser, ruler, and a scientific calculator (**Texas Instruments 30X-A** or equivalent.) A 4-color pen is also recommended. Safety goggles will be provided, however students may want to purchase their own for best fit.

### LABORATORY DONATION

Materials in the Chemistry lab that are consumed annually cost approximately \$500. The annual teacher budget is \$200 for all of our teaching materials. If you would like to assist with your science education, please see your teacher.

### RULES AND EXPECTATIONS

- All labs and assignments are due on the specified date. Illnesses, with the proper documentation, will be the only allowed exceptions.
- The language of science can often be difficult. It is therefore **crucial** that assigned readings be completed, as they will help contribute to your knowledge of chemistry and earth science. Quizzes will be based on these readings and may be announced or unannounced.
- The bell indicates that classes are to start. Class will begin at the bell so you should be ready to work. It is your responsibility to find out what you missed outside of class time.
- Students that are tardy affect the learning of themselves and other students in the class. More than two tardies will result in the loss of class participation points. This includes students who must leave the class to comply with the dress code or to retrieve materials from their lockers.
- Please do not disrupt the learning of those around you.
- **Recording of any kind is not permitted** in class without the instructor's permission (Ed Code 66450-66452). **This includes publishing of class materials and discussions.**

### SEMESTER END

All labs and hand-in assignments **must** be turned in at the end of semester. To insure that this occurs, a bonus grade will be given based on the quality of the lab book's condition (maximum of 4 percent). Lab books should be bound (a 3-tab folder is preferred) and all corrections should be made. Assignments will be corrected in class and/or posted for you to make your corrections.

### EXTRA HELP

Your teacher will be available for extra help by appointment. My extension number is (277-6400) 1163 and my e-mail is: mapplebecks@scusd.edu **or** s\_mapplebeck@yahoo.com.

I understand that my student(s) will be receiving safety instruction on how to use the safety equipment available in the laboratory and **I acknowledge that I have read this syllabus.**

Signed: \_\_\_\_\_ Please Print Name: \_\_\_\_\_

Student Signature: \_\_\_\_\_

Please Print Name: \_\_\_\_\_ Date: \_\_\_\_\_