Required Texts:
“Chemistry in Context” (Brooklyn College custom 6th edition), and “Experiments for Core Chemistry at Brooklyn College.”
Both texts are available in paper at the Brooklyn College or Shakespeare bookstores.
“Chemistry in Context” is also available as an eBook at [www.coursesmart.com](http://www.coursesmart.com) or [www.textbooks.vitalsource.com](http://www.textbooks.vitalsource.com). A small number of textbooks have also been placed on library reserve.

Lecture Schedule and Reading Assignments

**Chapter 1:** The Air We Breathe
1/30: page 9; Sections 1 – 7
2/6: Sections 8-14
2/13 No Classes

**Chapter 2:** Protecting the Ozone Layer
2/20: page 57; Sections 1 – 3
+ **Chapter 5**, section 5-7
2/27: Sections 4 - 12

**Chapter 3:** The Chemistry of Global Warming
3/6: page 101; Sections 1 - 7
3/13: Sections 8-12
3/20: Review

**3/27: Midterm**

**Chapter 5:** The Water We Drink
4/10: page 195; Sections 1 - 7
4/17: Sections 8 - 15

**Chapter 7:** The Fires of Nuclear Fission
4/24: Sections 1- 6
5/1: Sections 7- 11

**Chapter 9:** The World of Polymers and Plastics
5/8
5/15: Finish up, Review

**5/22: Final**

**Lecture quizzes:** 20 min. tests after each lecture

Course Requirements and Grading
The final grade for the course is based on a score, which is the sum of the scores received for lab reports, lecture quizzes, midterm and final exams.
The grade breakdown for core Saturdays sections as follows:

- **30%** of the lab grade
- **10%** of the lecture quizzes
- **30%** of the midterm exam grade
- **30%** of the final exam grade
The **midterm exam and Final exam will be given during a scheduled lecture period.** The midterm exam will cover the first half of the semester’s work. Questions from the lab experiments will be included.

The Final exam will cover: material from the second half of the semester will be emphasized but material from the first half of the semester will be included. Questions related to lab experiments will also appear on exams. **Bring pencils!!!**

It is the student’s responsibility to **note exam times** at the beginning of the semester, and to be sure **not to schedule other activities during this time.** There is no make-up test for the midterm exam. If the midterm is missed, the final exam grade will be counted twice only if documented proof is given for serious cause of absence such as illness or accident that physically prevented attendance. Without such proof, no credit will be given for the midterm.

A student who misses both the midterm and final exams will receive a grade of F for the course. Midterm and final examinations cannot be completed independent of the lab work. NO credit is earned for coursework without completion of the lab assignments.

**Also required for lab:** a small combination or key lock, liq. soap, a roll of paper towel, matches.

**Laboratory Schedule**

**Week 1:** Check-in. lab safety, lab techniques

**Weeks 2 & 3:** Experiment 1-Examination of the Physical and Chemical Properties of Matter

**Week 4:** Experiment 2-Energy Powers Physical and Chemical Changes

**Week 5:** Experiment 4-Carbon Dioxide: an All-Too-Common Reaction Product

**Week 6:** Experiment 3-Water Makes the Difference – Decomposition of Copper Sulfate Pentahydrate

**Week 7:** Experiment 5-Accounting for Every Atom: Moles in Chemical Reactions

**Week 8:** Experiment 6-Name that Ion: Qualitative Analysis

**Week 9:** Experiment 7-Bonding in Molecules: How Electrons control Physical and Chemical Properties

**Weeks 10 & 11:** Experiment 8-An Experiment in ‘Cleaning’ Water

**Week 12:** Experiment 9 – Synthesis of esters

**Week 13:** Experiment 10-Building Molecules with Models

**Week 14:** Check-out

**Details about lab attendance, lab reports and grades.** Attendance will be taken at the beginning of each lab class. It is the student’s responsibility to notify the instructor of her/his presence.

Labs missed due to illness must be made up by attending alternate lab sessions with permission of the lab instructor, arranged through the General Chemistry stockroom technicians, Mrs. Grace Kosiorek (248 Ingersoll NE). Labs so completed must be accompanied by a signed lab make-up form, obtained from the stockroom technician. This form is to be returned to the student’s assigned lab instructor. Experiments not completed will result in a grade of zero for that experiment.
It is a New York State law that safety goggles must be worn at all times by all students in the laboratory. Goggles are provided as part of the lab equipment rental fee. Students who consistently refuse to properly wear safety goggles during the lab period will be dismissed from the laboratory. Students so dismissed will not have the opportunity to make up missed lab work. It is the student’s responsibility to bring her/his goggles to each lab session. If the student completes their lab work before the end of the session, students MUST continue to wear their goggles until they have exited the lab.

Eating and drinking are also not permitted during lab sessions. Students may also be dismissed for violation of this safety rule.

Accommodations for Students with Disabilities
In order to receive disability-related academic accommodations, students must first be registered with the Center for Student Disability Services. Students who have a documented disability or suspect they may have a disability are invited to set up an appointment with the Director of the Center for Student Disability Services, Ms. Valerie Stewart-Lovell, at 718-951-5538. If you have already registered with the Center for Student Disability Services, please provide your professor with the course accommodation form and discuss your specific accommodation with him/her.

Academic Integrity
The faculty and administration of Brooklyn College support an environment free from cheating and plagiarism. Each student is responsible for being aware of what constitutes cheating and plagiarism and for avoiding both. The complete text of the CUNY Academic Integrity Policy and the Brooklyn College procedure for implementing that policy can be found at this site: http://www.brooklyn.cuny.edu(bc/policies. If a faculty member suspects a violation of academic integrity and, upon investigation, confirms that violation, or if the student admits the violation, the faculty member MUST report the violation.

All students should read carefully and thoroughly the 2007-2010 Brooklyn College Bulletin, especially pp. 35-51, pp. 52-59, and pp. 74-83, for a complete listing of academic regulations of the College.

Classroom Etiquette
Eating and cell phone usage is not allowed during lecture. Unnecessary and superfluous movement, talking and other disruptive behavior distracts other students’ attention from the lecture material to which they are entitled. Students who create such disturbances will have points deducted from their lecture grade.

The state law regarding non-attendance because of religious beliefs shall be followed as given in the Brooklyn College Bulletin, Undergraduate Programs 2003-2006, p. 274.

Instructor Contact Information
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Office hours: 8:30 – 9:00 am, lecture room and 12:40 – 1:10 pm, lab room