Course Description:
This course will familiarize you with general chemistry laboratory concepts, techniques, and equipment. The laboratory section is designed to allow the student to see chemical processes in action and learn methods utilized by chemists in research. This course will also provide you with a reinforcement of the concepts you learn in the lecture portion of this course.

Lab Manual & Supplies:
The required laboratory text is available in the BU bookstore.
Title: Life Sciences Chemistry Laboratory
You will also be required to supply your own safety glasses and lab coat.

Contact Information:
Brian G. Kyte, PhD
Email: kyte@bu.edu
Telephone: 617-353-2553
Office location – SCI 358A

Meeting Time and Location:
You will attend the section you are scheduled for:
Tuesday 9:30-12:30 in SCI 346 & 348
Thursday 9:30-12:30 in SCI 346 and 348
Friday 11:00-2:00 in 348
Friday 2:00-5:00 in SCI 346 and SCI 348

Office Hours:
Your Teaching Fellow (TF) will hold office hours. Please attend their hours if you have questions about the laboratory exercises.

Please see Dr. Kyte for the following issues:
Problems with your TF, academic problems, you require special accommodations, any other problems your TF can not solve for you.
Dr. Kyte's office hours:
Tuesday 4:30-5:30; Wednesday: 5:00-6:00
Other times available by appointment.

Academic Considerations:
The TFs and Dr. Kyte are available during their office hours. If you have questions on writing up the labs, please bring them to office hours. We will not tell you how to do the write-up, but will give you hints to point you in the right direction so that you can do the write-up on your own. The TFs will not answer questions on the previous week's write-up at the beginning of lab.
This course follows the Boston University guidelines for academic conduct including policies on cheating and plagiarism. It is the responsibility of each student to know and understand the provisions of the CAS Academic Conduct Code. For more information on BU’s Academic Conduct code, please see http://www.bu.edu/cas/academics/programs/conductcode.html

This course requires that you strictly adhere to the Academic Conduct Code.
Any violation will result in failure of the course without a chance to withdraw.
Moreover, quizzes, lab reports, and post lab assignments must be done ON YOUR OWN. If we determine that people have handed in write-ups that are totally, or in-part identical, the penalty will be severe.

Students whose disabilities fall within the “Americans with Disabilities Act” should inform the instructor and the TF as soon as possible of any special needs. Students with learning disabilities may inform the instructor and special accommodations may be available to you as a student.

Missing a lab:
If you know you will have to miss a lab, please contact Dr. Kyte as soon as possible and arrange to meet with one of the other lab sections. If you miss a lab when you are away from campus because of an emergency, you should contact Dr. Kyte immediately after you return. Labs may be missed for one of three reasons only: illness, a family emergency, or a religious commitment. In case of illness, a doctor's note is required for confirmation. It is your responsibility to notify Dr. Kyte of any absence as soon as possible and it is your responsibility to make arrangements to attend another lab that same week.

Grading:
Below is a table with the breakdown of your laboratory grade. In general, the lab and related assignments are worth 80% of the lab grade and the performance grades are worth 20% of your total lab grade.

<table>
<thead>
<tr>
<th>Laboratory Assignments</th>
<th>80%</th>
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<tbody>
<tr>
<td>(Pre-Lab 30%, Lab &amp; Post-lab 70% of total in this category)</td>
<td></td>
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<tr>
<td>Midterm performance grade</td>
<td>10%</td>
</tr>
<tr>
<td>Final performance grade</td>
<td>10%</td>
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</tbody>
</table>

Pre-Lab Worksheets & Attendance
These worksheets are due at the beginning of the pre-lab discussion on Monday. Worksheets not handed in during the beginning of the pre-lab session will not be graded. Prelab discussion attendance will be part of your grade.

Experiment
This grade is determined from your experiment report form. This is to be handed in before the next laboratory exercise (one week after completion). NO LATE REPORTS WILL BE ACCEPTED.

Post-Lab Assignment
This is assignment is given in the textbook. It is due with the laboratory experiment, which is handed in one week after completion of the experiment. NO LATE REPORTS WILL BE ACCEPTED.

Performance grades
There are two performance grades that count towards the lab portion of your grade that occur throughout the semester, a mid term and final performance grade. This grade will be based upon several categories, including execution of the laboratory activities, equipment utilization, technique, clean up, safety, proper dress, attitude in the laboratory, and time management.

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Dropping a lab:
There will not be a make-up for any lab missed, for any reason, and the missed lab will be counted as a zero. If you have an excused absence you will be allowed to drop one lab. If you have not missed any labs your lowest lab grade will be dropped as long as you attended the lab and turned in work for grading. If a documented excuse is not provided for a missed lab, the grade will be zero and this grade will not be dropped.

***All requests for reconsideration of a grade must be submitted within one week of the time the material was returned to the students.***

<table>
<thead>
<tr>
<th>Week of:</th>
<th>Laboratory Exercise</th>
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<tbody>
<tr>
<td>09/07/09</td>
<td>1) Using Exponential Notation 2) Transfer and Measurement of Chemicals</td>
</tr>
<tr>
<td>09/14/09</td>
<td>1) Lewis Structures 2) Determining Density</td>
</tr>
<tr>
<td>09/21/09</td>
<td>Separating Binary Mixtures</td>
</tr>
<tr>
<td>09/28/09</td>
<td>Determining the Empirical Formula of Magnesium Oxide</td>
</tr>
<tr>
<td>10/05/09</td>
<td>Single Replacement Reactions and Relative Reactivity</td>
</tr>
<tr>
<td>10/19/09</td>
<td>Diffusion of Gases</td>
</tr>
<tr>
<td>10/26/09</td>
<td>Charles's Law</td>
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<tr>
<td>11/02/09</td>
<td>Heat of Neutralization</td>
</tr>
<tr>
<td>11/09/09</td>
<td>Aqueous Solutions</td>
</tr>
<tr>
<td>11/16/09</td>
<td>Standardizing a Solution of Sodium Hydroxide</td>
</tr>
<tr>
<td>11/30/09</td>
<td>Quantitatively Determining the Acid Content of Fruit Juices</td>
</tr>
</tbody>
</table>

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