CHM 158 Laboratory
Fall 2006

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Teaching Assistant:

Course: CHM 158/148 lab
CRN: 41660/43843
Room: 230/240 HHS
Day: Thursday
Time: 8:00 – 11:00 a.m.

Required Items:
* General Chemistry Laboratory I, 2006-2007 Edition
* Safety Goggles

The laboratory manual is a part of the textbook packet available in local bookstores. Separate copies are also available in the on-campus bookstore for those who already have a copy of the textbook. You are responsible for supplying your own SAFETY GOGGLES (not safety glasses). These are also available for purchase from the bookstore. You will need to bring both the laboratory manual and safety goggles with you to the first class.

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**Experiment Schedule**

<table>
<thead>
<tr>
<th>Date</th>
<th>Experiment</th>
<th>Report Due Date</th>
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<tbody>
<tr>
<td>8/31</td>
<td>Check-In, Expt. 1 Parts I &amp; II</td>
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<tr>
<td>9/7</td>
<td>Expt. 1 Part III</td>
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<tr>
<td>9/14</td>
<td>Expt. 2 Part I</td>
<td>Expt. 1</td>
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<td>9/21</td>
<td>Expt. 2 Parts II &amp; III</td>
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<tr>
<td>9/28</td>
<td>Expt. 3 Parts I, II &amp; III</td>
<td>Expt. 2</td>
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<td>10/5</td>
<td>Expt. 3 Part IV</td>
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<tr>
<td>10/12*</td>
<td>Expt. 4 Part I/ Expt. V</td>
<td>Expt. 3</td>
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<tr>
<td>10/19</td>
<td>Expt. V/ Expt. 4 Part I</td>
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<tr>
<td>10/26*</td>
<td>Expt. 4 Part II/ Part III</td>
<td>Expt. 5</td>
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<tr>
<td>11/2</td>
<td>Expt. 4 Part III/ Part II</td>
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<tr>
<td>11/9</td>
<td>Expt. 6 Parts A, B, C &amp; D</td>
<td>Expt. 4</td>
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<tr>
<td>11/16</td>
<td>Expt. 7 Parts I, II, &amp; III</td>
<td>Expt. 6</td>
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<td>11/23</td>
<td>Thanksgiving (no class)</td>
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<td>11/30</td>
<td>Expt. 8, Checkout</td>
<td>Expt. 7 / 8</td>
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*If you drop this course, you need to check out of the lab. Failure to check out of your lab drawer will result in a laboratory check-out fee ($10.00) plus a key replacement fee ($15.00).*

* If the lab is split into 2 rooms, then students in 240 HHS will do Expt. 4 part I and students in room 230 HHS will do Expt. 5 the first week. The following week the rooms will switch assignments. This also applies for the remainder of Expt. 4 (Part II & III). The first week room 240 HHS will do Part II and 230 HHS will do Part III. The rooms will switch assignments the following week. If the class is in just one room, then we will complete Expt. 5 first.
Laboratory Groups
You will be assigned to a laboratory group of three or four members during the first laboratory session. You should make every effort to work as a fully functioning team with all members making significant contributions to the laboratory work, preparation of pre-lab assignment, and preparation of laboratory reports. You will rate the contribution of each member of your team on each experiment in terms of a percentage score. A 100% score indicates the member has fully completed their assigned tasks for that experiment. For Experiment 1, the rating of teammate contributions will not affect the grades but will show each person how the others on the team value each person’s efforts. For experiments 2, 3, and 4, ratings will impact 25%, 50%, and 75%, respectively, of the lab scores. For experiments, 5 through 7, 100% of the lab scores for each person will be multiplied by the teammates’ average rating.

Absence Policy
The general policy for the lab is that each person can miss without penalty one lab session. If you miss, your teammates will have to cover for you. Therefore, if you need to miss a lab, you are encouraged to make an extra effort in the work outside of the lab to compensate for the extra effort your teammates have put forth in the lab. If a teammate misses more than one lab session, it should be noted on the contribution sheet that this teammate missed the lab.

Pre-Laboratory and Laboratory Reports
Lab teams will submit ONE pre-laboratory assignment and ONE full laboratory report. The team number and names of all participating team members should appear on each sheet. Any team member who wishes to submit a separate pre-lab assignment or separate parts of any experiment report may do so.

- Pre-Lab
  Pre-labs are due the day of the experiment at the beginning of the lab. Students submitting separate pre-labs should submit the pre-lab when that pre-lab is due. Submission of pre-labs after the beginning of the lab period will result in the loss of 10% of the pre-lab points.

- Lab Reports
  Lab reports are due at the beginning of the lab period in which they are due. No reports will be accepted after the due dates. The due dates are listed on schedule. Those individuals turning in separate work should attach their work at the end of the lab report.

Post-Lab Discussion Questions
At the end of experiments 1, 2, 3, 6 and 7 are post-lab discussion questions. These questions are worth 10 pts of your lab report. Each group will be assigned a specific question. Your answer to these questions will be presented to the class in a short presentation (3-4 minutes). The grade for the presentation is comprised of 4 points from your peers and 6 points from the instructor. If there are more groups than questions, the rotation will have groups that are “OFF” for these experiments. Groups that are “OFF” will need to do a short in-class write-up assessing the validity of the answers presented by the other groups. This means your group needs to be familiar with what an appropriate answer might be for all of the questions. This write-up is worth 10 pts and is due at the end of the class period in which post-lab discussion questions were presented. Submit one Post-Lab Discussion Question Sheet per group at the end of the lab period in which Post-lab discussion questions were done.

Laboratory Rules
Safety goggles must be worn at all times in the lab.
No open toes shoes in the lab.
The use of cell phones in the lab is prohibited.
No horseplay in the lab.