Chemistry 18A, General Chemistry Lab I, Summer 2019

Contact Information
Professor Rebecca Meeks
x62534
rebeccameeks@gmail.com
Edison-Lecks 125

Office hours
M & Th 11-12

Lab Sessions
M & Th: 1:00-5:30 PM

Course description
Chemistry 18A is the companion course to Chemistry 11A. It is designed so that the experiments follow the lecture topics giving students a hands-on way to help them understand the material they are learning. In addition to reinforcing and practicing all techniques learned in Chemistry 18A, this course will introduce titrations as well as some basic synthetic techniques. Prerequisites: Chem. 11A and 18A or approved equivalents. Chem. 11A must have been completed or be taken along with this course. If Chem. 11A is dropped before the end of the course, permission to continue in the lab course may, in some cases, be granted, but requires the written approval of the lab instructor.

Materials
- Chem. 18/19 General Chemistry Laboratory Manual, 2018 (available on LATTE)
- Bound laboratory notebook with carbonless duplicate pages (bookstore)

LATTE
LATTE is our online course website. Templates for lab reports, lab experiments, etc. will be available on LATTE. In addition, lab reports will be submitted on LATTE. To access LATTE, go to http://latte.brandeis.edu and log in using your UNET ID and password.

Attendance
Attendance at all labs is required. You are expected to arrive in time to have turned in all your written materials so that the lab can start promptly with the pre-lab talk at 1:00. Missed labs will be allowed only with a documented medical excuse. You will still be responsible for the material missed on the final exam. Late arrival will result in a penalty of 10% assessed to the grade of the lab report for that experiment.

Grade Weighting

<table>
<thead>
<tr>
<th>Class Element</th>
<th>Grade Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab reports</td>
<td>60%</td>
</tr>
<tr>
<td>Final exam</td>
<td>30%</td>
</tr>
<tr>
<td>Lab performance and preparation</td>
<td>10%</td>
</tr>
</tbody>
</table>
Students entitled to accommodations

Brandeis seeks to welcome and include all students. If you are a student who needs accommodations as outlined in an accommodations letter, please talk with me and present your letter of accommodation as soon as you can. I want to support you. In order to provide test accommodations, I need the letter more than 48 hours in advance. I want to provide your accommodations, but cannot do so retroactively. If you have questions about documenting a disability or requesting accommodations, please contact Student Accessibility Support (SAS) at 781.736.3470 or access@brandeis.edu.

Preparation for Lab:

- Read the experiment in the lab manual **thoroughly.**
- Complete the prelab assignment. *This must be handed in for grading before you will be allowed to begin the lab. If it is not complete when you arrive in lab, you will still be required to complete it before you start the experiment, but the 10% late penalty will be assessed to your report.*
- Write in your notebook:
  - Title, Date, Purpose of experiment
  - List of equipment and chemicals
  - Procedure (leave the right-hand half of each page blank to record your observations during the experiment)
- Your T.A. will check your lab notebook when you arrive to verify that you have done all required written preparation for the experiment.
- Bring lab manual, lab notebook, and scientific calculator to each lab session

Lab Reports:

A complete lab report must include the following:

- Title, Date, Purpose of experiment
- Abstract (brief overview of the experiment and summary of results and conclusions)
- List of equipment and chemicals
- Procedure
- Observations
- Table of data
- Calculations
- Discussion questions
- Graphs (if applicable)

Lab Report Due Dates:

*Unless otherwise specified, all lab reports are due at the beginning of the next lab session. Late reports will receive a 10% penalty if handed in within the first 24 hours after the report is due. If not handed in within 24 hours, the penalty will be 25% for each day the report is late.*

Final Exam:  July 3rd, 9:00-12:00
**Academic honesty:**
Academic integrity is central to the mission of educational excellence at Brandeis University. Violations of University policies on academic integrity, described in Section Three of *Rights and Responsibilities*, will not be tolerated and may result in a failing grade in the course or on the report or exam in question. A repeat offense may result in suspension or dismissal from the University.

**Schedule for Lab Experiments and Assessments**

<table>
<thead>
<tr>
<th>June</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3</strong></td>
<td><strong>Experiment 1</strong></td>
<td>Density of Water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>10</strong></td>
<td><strong>Experiment 3</strong></td>
<td>Periodic Table</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>17</strong></td>
<td><strong>Experiment 5</strong></td>
<td>Ox-Red Titration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>24</strong></td>
<td><strong>Experiment 7</strong></td>
<td>States of Matter</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>July</strong></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td><strong>1</strong></td>
<td><strong>Experiment 9</strong></td>
<td>Solutions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2</strong></td>
<td><strong>Notebook Check 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>3</strong></td>
<td><strong>Final Exam</strong></td>
<td>9am-12pm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>4</strong></td>
<td><strong>Notebook Check 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>5</strong></td>
<td><strong>Experiment 8</strong></td>
<td>Gases</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>