CHM 157 – Section 010

Course information: General Chemistry I Laboratory
CHM 157, Section 010 (CRN 48123)
Wednesdays, 8:00am-11:00am
Room 230/240 Hannah Hall of Science (HHS)

Professor: Dr. Kimberly Hill Edwards
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Office Hours: At scheduled times or by appointment
   Monday 1:00pm – 3:00pm, Tuesday 10:00am – 12:00pm
   Thursday 12:30pm – 2:30pm

Teaching Assistant: Xiaoxia Jin

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Experiment Schedule

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<thead>
<tr>
<th>Date</th>
<th>Expt #</th>
<th>Experiment</th>
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<tbody>
<tr>
<td>Sept. 5</td>
<td></td>
<td>Laboratory Safety &amp; Check-In</td>
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<tr>
<td>Sept. 19</td>
<td>1</td>
<td>Chemical Reactivity Part I &amp; II</td>
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<tr>
<td>Sept. 26</td>
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<td>Part III</td>
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<tr>
<td>Oct. 3</td>
<td>2</td>
<td>Copper Cycle</td>
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<td>Oct. 10</td>
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<td>Oct. 17</td>
<td>3</td>
<td>Conductivity of Solutions</td>
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<td>Oct. 24</td>
<td>4</td>
<td>Acid-Base Titrations</td>
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<tr>
<td>Oct. 31</td>
<td>5</td>
<td>How Much is Too Much? Part A &amp; B</td>
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<tr>
<td>Nov. 7</td>
<td>6</td>
<td>Analysis of Copper in Brass</td>
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<tr>
<td>Nov. 14</td>
<td>7/8</td>
<td>Molecular Structure /Synthesis of Aspirin (Checkout)</td>
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<tr>
<td>Nov. 21</td>
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<tr>
<td>Nov. 28*</td>
<td>7/8</td>
<td>Molecular Structure /Synthesis of Aspirin (Checkout)</td>
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<tr>
<td>Dec. 5</td>
<td>7/8</td>
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* If the lab is split into 2 rooms, then students in **230 HHS will do Expt. 7** and the students in room **240 HHS will do Expt. 8** the first week. The following week the rooms will switch assignments.

If you drop this course, please come in and check out of the lab drawer. You will be charged a check-out fee ($10.00) and a key replacement fee ($15.00) if you don’t check out of your drawer.

Purpose: The laboratory combined with the lecture is designed to reiterate the chemistry concepts learned in the classroom through hands-on experience. The laboratory portion of this class will familiarize one with basic laboratory techniques. In many instances the experiments demonstrate how these basic chemistry concepts relate to everyday life.
Required Items:

*General Chemistry Laboratory I* manual

Safety Goggles

This year the laboratory manual is not available in the bookstores. All the labs are on the Moodle website for this course ([https://moodle.oakland.edu/moodle/login/index.php](https://moodle.oakland.edu/moodle/login/index.php)). You are responsible for printing off the laboratory for each week prior to arriving in class and 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 printed laboratory material and safety goggles with you to class each week.

Laboratory Expectations:

**Before Lab:**
1. Print off the necessary data sheets for the laboratory experiment.
2. **Pre-lab assignment:** This is due at the beginning of the lab period. The pre-lab is submitted with your lab report, so even if you have not covered the material in lecture, you are still responsible for making an attempt at ALL of the pre-lab problems before class.
3. **Procedure:** The Procedure needs to be typed or written out. *No photocopies will be accepted.* This is also due at the beginning of the lab period.

   *You will not be allowed to work in the lab unless your Pre-lab and procedure are completed. If your Pre-lab assignment or procedure is not complete when you enter the lab, you will be asked to leave the lab to finish this assignment in the hallway. You are then only eligible for 50% of the pre-lab and/or procedure assignment points for that lab.*
4. **Chapter 9 “Laboratory Skills”:** Read any sections that may pertain to the days experiment.

**During Lab:**
1. You are expected to be on time for lab. Students who are late to lab will not be given additional time to complete the lab.
2. You should be properly attired as described by the Oakland University Undergraduate Chemical Laboratory Safety Manual (e.g. No shorts, sandals, etc)
3. You should conduct yourself in a manner that would provide a safe working environment in the lab for all students. Students acting in such a manner that would jeopardize the safety of any student will be asked to leave the lab and will receive a zero for the day’s work.
4. You should work efficiently with your lab partner. All labs are designed to be completed within the 3 hour lab period. No additional lab time will be given.
5. **Additional Lab notes:**
   a. **All data must be recorded in ink.** No pencils or erasable ink pens allowed.
   b. Any errors made in the lab should be crossed out with a single line and then the corrected data written next to the error where there is space. *DO NOT SCRIBBLE OUT ERRORS!*
      i. e.g. **0.0476 g 0.476 g**
   c. Any data recording errors **must be initialed by the instructor** before you leave the lab. Lab report data sheets submitted with errors not initialed by the instructor will **lose data points.**
   d. At the end of the day, all data **MUST be initialed** by the instructor. Data sheets without initials will be given a zero.
   e. Reminder: Decimal numbers should include a zero in front of the decimal.
**Lab Reports:**
1. Lab reports are due at the beginning of the next lab period
   *Turn in completed lab report to your instructor and sign sheet verifying submission of lab report.*
2. Lab reports should include the following
   - Coversheet (grading sheet) with your name and partner’s name, pre-lab questions,
   - procedure, data and observations, any graphs or tables, and post-lab questions
3. Pages should be in numerical order or in order of how it is listed on the coversheet.
4. **The lab report must be stapled** (five point deduction for turning in a report not stapled)
5. Your name should appear on all pages.
   - Due to the large number of lab reports that are turned in, occasionally pages come loose during the process of submission and grading.

**Absence Policy**
No make-up laboratories will allowed. The lowest grade on a lab report will be dropped so if you miss class, you will receive a zero for that part of the lab and that will count as your one dropped lab.

**Laboratory Reports**
Although you will be working with a partner, **each student will submit their own lab report.**
The lab reports are due at the start of the next lab period. **Late lab reports will follow the guidelines listed in the laboratory manual. (10% per day late)** Whether your lab report is one hour, or one day late, it is still considered late and the above mentioned guidelines will apply.

Lab reports will **not** be returned to students after they are submitted and graded. Lab reports scores will be available to you through Moodle. Students will be allowed to review their graded lab report the week after they are submitted but it must be turned back in. If the graded lab report is not returned to the instructor, they will receive a zero score for that lab.

**Academic Conduct:**
Students are expected to uphold the academic standards set by Oakland University. The work submitted by any student should be their own work. Students suspected of academic misconduct (Examples of academic misconduct are the submission of labs containing data that has been falsified, copying any part of your lab from a previously graded lab report, copying from other students, plagiarism, changing answers on your lab report after the report has been graded, the use of materials not authorized by the instructor, obtaining copies of old lab reports or answer keys, or another student completing the lab for you), will be reported to the academic conduct committee. Students found guilty of academic misconduct for the laboratory will receive a zero grade for the lab. For further details see Academic Conduct Policies section (p. 80-81) in the 2005-2006 Undergraduate Catalog.

**Cell Phones:**
Cell phones are to be turned off during the class period. You may not leave the classroom to answer phone calls.