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Phone: 817-257-6220  
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**Office Hours (Anne Richards)**  
Monday 9:00 – 10.00, 3:30-4:30  
Tuesday 8.00 –9.30, 2.00-3.30  
Thursday: 9.30-11.00, 3.15-4:30  
**Other times, by appointment only***

**Other Office Hours (outside SWR 400)**  
Monday through Thursday 10:00 – 11:00, one of the TA’S will be available during this time  
**Other times, by appointment only**

**Requirements**  
Pre-requisite Chemistry 10113  
Co-requisite – Chemistry 10123

**Required Text:**  
Laboratory Manual: Principles of General Chemistry, J.Beran (Wiley)

**Class Schedule:**  
Lab Lecture: Thursday 2.00 – 2.50 pm, SWR LH2  
Lab Times Monday 3.00 – 6.00 pm SWR 400  
Tuesday 8.00 –11.00am SWR 400  
Tuesday 2.00 – 5.00pm SWR 400

**Evaluation Method**  
Laboratory Reports 50%  
Weekly Quizzes 20% * the best 6 of 8 quiz results will be counted  
Exam 1 15%  
Exam 2 15%

**Course Objectives:**  
- To be able to safely and efficiently use scientific glassware, chemicals and equipment.  
- Balance equations, calculate stoichiometry, percentage yields  
- To accurately describe and explain phenomena observed in the lab.
• Be able to look up and report information from reference books.
• Learn how to work to deadlines in a responsible manner.

**Course Information and Policies**

• Some medical conditions make exposure to chemicals unwise. If you undergoing treatment from a doctor, are on medication or have any concerns about possible chemical exposure, please check with your physician prior to beginning the laboratory.

• A pre-lab is required for every lab session. If this is not completed you will not be allowed to begin the lab.

• All lab sessions and lab lectures are to be attended, and to be attended on time. Any student that turns up late for lab, will not be allowed to perform that lab.

• All students are required to wear eye protection. If you wear glasses, you will need to wear safety goggles over the glasses. Contact lenses may be worn under safety glasses, but the session TA must be informed. Goggles must be worn at ALL time when in the lab. If a student is seen without wearing goggles, I or the T.A. will ask the student to leave the lab. No open toe shoes are allowed in the lab, and the wearing of lab coats is encouraged.

• For many of the labs, data sheets will be filled out during the lab. These will be turned in before you leave the lab. Some experiments will require formal reports. These lab reports are due at the start of the next lab session. No late lab reports will be accepted.

• Students are expected to turn in independent lab reports. Where work is ‘quoted’ from references, credit must be given (referenced). You must use your own data, if your report does not match your lab notebook, you may be assigned zero, or have to redo the report.

• Points will be deducted for careless or reckless work, messy lab spaces and poor techniques.

• If you miss three unexcused labs, an F grade will be assigned, if you have an ‘excused absence’ (as defined by the university handbook), please inform me as soon as possible.

**Last Drop Date: Wednesday March 22**

**Exam and Quiz Schedule:**

- February 2: Quiz 1
- February 9: Quiz 2
- February 23: Quiz 3
- March 2: Quiz 4
- March 9: Exam 1
- March 16: Spring Break, No Class
- March 30: Quiz 5
- April 6: Quiz 6
- April 13: Quiz 7
- April 20: Quiz 8
- April 27: Exam 2
# Tentative Schedule of Labs

<table>
<thead>
<tr>
<th>Week of</th>
<th>Lab</th>
<th>Experiment</th>
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<tbody>
<tr>
<td>Jan 16</td>
<td>No practical lab. Dry Lab 1</td>
<td>Read pages 1 – 34, lab assignment on page 35, completed and handed in by 11am Jan. 23</td>
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<tr>
<td>Jan 23</td>
<td>Basic Lab Operations</td>
<td>1 Page 45-53</td>
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<tr>
<td>Jan 30</td>
<td>Compound Identification</td>
<td>2: Pages 53-60</td>
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<tr>
<td>Feb 6</td>
<td>Copper Chemistry</td>
<td>3: Pages 79-86</td>
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<tr>
<td>Feb 13</td>
<td>Limiting Reactant</td>
<td>4: Page 101-107</td>
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<tr>
<td>Feb 20</td>
<td>Volumetric Analysis</td>
<td>5: Page 109-115</td>
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<tr>
<td>Feb 27</td>
<td>Metathesis Reactions</td>
<td>6: Pages 161-167</td>
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<tr>
<td>March 6</td>
<td>Synthesis of Asprin</td>
<td>7: Page 323-330</td>
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<tr>
<td>March 13</td>
<td>Inorganic Nomeclature</td>
<td>Dry Lab 2: Assignment for Spring Break, pages 125-136</td>
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<tr>
<td></td>
<td></td>
<td>Dry Lab 3: Pages 137-148, periodic law, due 11am March 20.</td>
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<tr>
<td>March 13</td>
<td>Spring Break, No Lab</td>
<td>---------------------------</td>
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<tr>
<td>March 20</td>
<td>Oxidation Reduction</td>
<td>8: Pages 183-190</td>
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<tr>
<td>March 27</td>
<td>Factors Affecting Reaction Rates</td>
<td>9: Pages 257-273</td>
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<td>(Part C, not performed)</td>
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<tr>
<td>April 3</td>
<td>Qualitative 1</td>
<td>10: Pages 393-411</td>
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<tr>
<td>April 10</td>
<td>Le Chateliers Principle</td>
<td>11: See additional notes</td>
</tr>
<tr>
<td>April 17</td>
<td>Polymer Synthesis</td>
<td>12: Pages 281-291</td>
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<tr>
<td>April 24</td>
<td>No Lab</td>
<td>No Class</td>
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</tbody>
</table>

**Dry Lab 3:**
Atomic and Molecular Structure: Pages 149-159, will be set at some point during the second half of the semester.