Instructor of record: Upali Siriwardane  Phone: 251-4941  e-mail: upali@latech.edu
Office: CTH 311
Office hours: 9:30-11:30 M-F; or by appointment.

Laboratory Manual: The lab experiment procedures are available only on Moodle. These procedures MUST be printed and brought to lab each week. Failure to do so may result in a reduction of the grade for that day’s experiment.

Lecture Material: Lecture material should be printed and brought to lab lecture. These notes are also available on Moodle.

Pre-Lab Homework: Pre-lab homework is available on Moodle. Pre-lab homework must be handed in at the beginning of the scheduled lab period.

Requirements:
1. Each student must have a copy of the lab procedures. The lab procedures are available on Blackboard.
2. Each student must have approved chemical splash safety goggles, which meet ANSI Z87.1-1989 standards. Do not come to lab without lab goggles.
3. Every student enrolled in this chemistry laboratory must view at least once the American Chemical Society video entitled Starting with Safety: An Introduction for the Academic Chemistry Laboratory.
4. Always bring lab procedures, calculator, and pencil to lab.
5. Lab jacket or apron are recommended and can be purchased through the Tech bookstore.
6. Each student must supply one (1) roll of paper towel. Paper towel should be given to the lab assistant during a lab period. No paper towel—no grade!

Lab Format:
1. Labs begin at 1:15 p.m. with lecture in a common lecture room. Hand in your pre-lab homework assignment upon entering the lecture room.
2. After lecture, proceed to the lab room and perform the lab experiment. Turn in the lab data sheet before you leave. Place your name and the names (s) of your lab partner(s) on your lab data sheet.

Grading Policy:
There are five (5) pre-lab homework assignments, each worth 20 points. There are six (6) labs, each worth 60 points. There is a lab final worth 100 points. The course grade is based upon total points accumulated.

Students should retain all graded material handed back to them so that they can prepare for the lab final. In the event of a question regarding any graded material exam grade or final grade, it will be the responsibility of the student to retain and present graded materials that have been returned for student possession during the quarter.

Lab Safety:
1. Each student MUST make 100% on the safety quiz.
2. Chemical splash safety goggles which meet ANSI Z87.1-1989 standards will be worn at ALL times while the experiments are being conducted!
3. Penalties for violation of the Lab Safety Contract are as follows:
   1. First Violation: Warning.
   2. Second Violation: Dismissal from that lab period with a grade of zero for that lab’s experiment.

Make-Up Policy:
1. Only one lab will be excused.
2. An excused absence related to an illness requires a written note from a physician.
3. An excused absence related to school functions requires a written note from a school official.
4. Only excused absences can be made up.
5. Excused absences will be made up during the week the absence occurs, if at all possible. If this is not possible the lab will be made up after the final exam.
6. The student will receive a grade of zero (0) for each lab and quiz missed that is not made-up.

Accommodations for students with disabilities:
Students needing testing or classroom accommodations based on a disability are encouraged to discuss those needs with me as soon as possible. For more information contact the Office of Disability Services, www.latech.edu/ods

Emergency Notification System:
All Louisiana Tech students are strongly encouraged to enroll and update their contact information in the Emergency Notification System. It takes just a few seconds to ensure you’re able to receive important text and voice alerts in the event of a campus emergency. For more information on the Emergency Notification System, please visit: http://www.latech.edu/administration/ens.shtml.

Cell Phone Policy During Lab:
It is the responsibility of the student to restrict the use of cell phones during lab while the experiment is being performed. All cell phones must be turned OFF and stored out of sight during each quiz and the final exam. Use of the cell phone as a calculator is prohibited.
<table>
<thead>
<tr>
<th>Lab Period</th>
<th>Date</th>
<th>Experimental Procedure</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Check-in</td>
<td>Safety lecture</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td><strong>Scientific Measurements</strong></td>
<td>scientific measurements, significant figures, dimensional analysis, mass, volume, density</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td><strong>Formula of a Hydrate</strong></td>
<td>formula weights, grams to moles, moles to grams, percent recovery</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td><strong>Activity Series of Metals</strong></td>
<td>oxidation, reduction, driving forces for chemical reactions, activity series of metals</td>
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<tr>
<td>5</td>
<td></td>
<td><strong>Acid-Base Titration Techniques</strong></td>
<td>acids, bases, neutralization reactions, titrations, end points, indicators</td>
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<tr>
<td>6</td>
<td></td>
<td><strong>Synthesis of Aspirin</strong></td>
<td>acids, phenols, esters, anhydrides, organic synthesis, percent yield</td>
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<td>7</td>
<td></td>
<td><strong>Preparation of Soap</strong></td>
<td>triglycerides, fatty acids, esters, saponification, hydrophobic molecules, divalent cations, monovalent cations</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td><strong>Lab Final, Check-out, &amp; Lab Make-Up</strong></td>
<td>Lab Final will consist of about 32 multiple choice questions over the concepts studied in the six working lab sessions.</td>
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*Lab Make-Up will be after final exam during Lab Period 8.
Only one (1) EXCUSED absence can be made up!