

Chemistry 1111: General Chemistry I Lab
Fall 2017, Time: 2:15-5:15pm, Prelab Lecture: Rm 100
Lab Section 15 = Rm 210, Section 95 = Rm 207

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Required Text: Chem 1111: General Chem I Lab Manual

Expt. No.	EXPERIMENTS/ACTIVITIES	Fri
	Safety Briefing and Check-in	8-Sep
1	Identification of Lab Equipment/ Techniques for Measuring Liquids	15-Sep
2	Chemical Nomenclature	22-Sep
3	Identification of Unknown Liquids Using Physical Properties	29-Sep
4	Determination of the Empirical Formula of an Oxide	6-Oct
5	Writing and Balancing Chemical Equations	13-Oct
6	Evidence of a Reaction	20-Oct
7	Separation of Mixtures	27-Oct
8	The Measurement of pH	3-Nov
9	Standardization of a Sodium Hydroxide Solution and the Determination of Acetic Acid in Vinegar	10-Nov
10	Determination of the Enthalpy of Neutralization of an Acid Base Reaction	17-Nov
11	Lab Exam (Final)	1-Dec

1. The first lab period is for the safety briefing. Safety training is mandated by State Law and anyone missing the training will **NOT** be allowed to work in the labs.
2. Each lab is worth 100 points (75 for lab; 25 for online pre-lab) and the lab exam is 300 points, the total is divided by 13 to give a final score out of 100.

3. Online prelab assignments will be found on blackboard. Anyone who doesn't complete the assignment by the due date/time will not receive any credit.
4. Each unexcused absence from lab receives a score of zero.
5. **Students missing more than two labs for any reason, in a semester will fail from the lab.**
6. All work should be the students own work. Anyone found to be copying another student's work or previous student's work is guilty of plagiarism. This is considered to be Academic Dishonesty and will result in an F for the course.
7. Students attending another lab must hand in their data sheet to the TA, making sure that the TA is aware that the lab sheet and grade are to be handed over to the correct **Instructor/TA.**

Grading: A = 90-100%; B = 80-89%; C = 70-79%; D = 60-69%; F = 0-59%

Learning Outcomes

Upon successful completion of this course, students will:

1. Use basic apparatus and apply experimental methodologies used in the chemistry laboratory.
2. Demonstrate safe and proper handling of laboratory equipment and chemicals.
3. Conduct basic laboratory experiments with proper laboratory techniques.
4. Make careful and accurate experimental observations.
5. Relate physical observations and measurements to theoretical principles.
6. Interpret laboratory results and experimental data, and reach logical conclusions.
7. Record experimental work completely and accurately in laboratory notebooks and communicate experimental results clearly in written reports.
8. Design fundamental experiments involving principles of chemistry.
9. Identify appropriate sources of information for conducting laboratory experiments involving principles of chemistry.

Academic Honesty:

Engaging in academic dishonesty as defined and described under Academic Affairs in the student handbook will result in immediate suspension from class and a course grade of F. Use of any wireless devices during tests and exams will be treated as an academic dishonesty.

Students with Disabilities:

For students with disabilities, this course will comply with all accommodations prescribed by the Lamar University Office of Services for Students with Disabilities. It is the responsibility of the student to insure that the instructor has been informed of all prescribed accommodations.

Emergency Preparedness

As we begin this semester, I want to take a few minutes and discuss emergency preparedness. Lamar is a very safe campus and there is a low probability that a serious incident will occur here. However, we want to emphasize our emergency procedures for evacuation and shelter in place incidents. Our preparedness will be critical IF an unexpected event occurs!

Instructions for specific emergencies, such as severe weather, chemical release, active shooter, or fire can be found at: <http://www.lamar.edu/about-lu/administration/risk-management/index.html>

Here are some simple things you should do in the event an emergency occurs during our class.

- Always follow the directions of the instructor or emergency personnel
- If told to evacuate, do so immediately.
- If told to shelter-in-place, find a room, in the center of the building with few windows, on the lowest level of the building.
- If told to lockdown, lock and barricade the door if possible. Turn off the lights and wait for police to arrive.

Emergency Procedures

Many types of emergencies can occur on campus; instructions for severe weather or violence/active shooter, fire, or chemical release can be found at:

<http://www.lamar.edu/about-lu/administration/risk-management/index.html>. Following are procedures for the first two:

Severe Weather:

- Follow the directions of the instructor or emergency personnel.
- Seek shelter in an interior room or hallway on the lowest floor, putting as many walls as possible between you and the outside.
- If you are in a multi-story building, and you cannot get to the lowest floor, pick a hallway in the center of the building.
- Stay in the center of the room, away from exterior walls, windows, and doors.

Violence/Active Shooter (CADD):

- **CALL** - 8-3-1-1 from a campus phone (880-8311 from a cell phone). Note: Calling 9-1-1 from either a campus phone or cell phone will contact Beaumont City Police Dispatch rather than University Police.
- **AVOID**- If possible, self-evacuate to a safe area outside the building. Follow directions of police officers.
- **DENY**- Barricade the door with desks, chairs, bookcases or any other items. Move to a place inside the room where you are not visible. Turn off the lights and remain quiet. Remain there until told by police it is safe.
- **DEFEND**- Use chairs, desks, cell phones or whatever is immediately available to distract and/or defend yourself and others from attack.