

CHEM 1211K Lab
Spring Semester 2018

A copy of this syllabus is available at: chemistry.gsu.edu
Click on **undergraduate**, click on **course syllabi**, click on **current semester**.

Lab Lecture: Fridays 8:00 am - 8:50 am, 218 NSC
Laboratory: Fridays 8:50 am - 11:00 pm, 234 NSC

Instructor: Dr. Pedro C. Vasquez
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Office Hours: Tuesdays 11:00 am – 12:00 noon or by appointment.

Text: GSU Lab manual (to be handed out at first lab lecture).
A course outline, schedule of activities, grading, etc., is included in the lab manual.

Comments on Lab:

Individualized project-type lab.

Notebooks should be kept up to date; bound notebook required.

Notebooks must be signed by TA's or lab instructor at the conclusion of each lab session.

Quizzes and final exam are closed-book.

Safety glasses required at all time.

Cleaning up is part of the lab session. Students should stop working and begin cleaning up their work area no later than 15 minutes before the conclusion of the lab session.

Students must exit the lab by 11:00 am

Students must turn in reports on density, recrystallization, melting point, molarity of NaOH and HCl, and Equivalent Weight of unknown after the conclusion of each of these experiments.

Session 1 **January 19th:** Introduction, safety video, check-in.

Session 2 **January 26th:** Density experiment.

Sessions 3-12 Purification and characterization of an unknown carboxylic acid.

Session 13 **April 20th:** Final exam and check out.

Final report and lab notebook due at this time.

Graded final exams, notebooks and final reports can be viewed at the instructor's office but will not be returned to the students.

No grades will be given via e-mail or by phone.

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I have read the entire syllabus and understood the grading system and all the additional information provided in it, including the following:

1. No make-up quizzes will be given. If a student misses a quiz or a homework it will count as a zero.
2. Late and electronic copies of homeworks/reports will not be accepted.
3. Students need to show their GSU Panther I.D. card when taking quizzes and final test.
4. The instructor reserves the right to assign seating during quizzes and final test.
5. Cell-phone calculators and programmable calculators are not allowed.
6. Cell-phones need to be kept either in purses or book-bags during exams or quizzes; they should be turned off at all times. In addition, usage of all electronic devices while in the lab, is not allowed.
7. If late for class, please enter through the back door.
8. Hats and hoods that partially cover the face will not be allowed during tests/quizzes.
9. There are not make-up labs unless students have a legitimate excuse for having missed a lab session. A lab make-up session is scheduled for the 12th lab session. Any other authorized make-up lab session will not take place until after 02/27/2018. A written authorization signed by the instructor is required.
10. **A lab apron or coat and goggles are required at all times while in the lab.** Students will not be allowed in the lab wearing shorts, sandals or open-toe shoes, or tops that expose shoulders.
11. **Notebooks:**
 - A. The student must bring to lab the write-up for the experiment to be performed on each session; this must include “bullets” of the procedure(s) to be carried out and data tables to be filled out.
 - B. The student must have the lab notebook signed by the TA or instructor at the conclusion of the lab. We do not accept any other options of records keeping.

Name (print in ink): _____

Signature (in ink): _____

Date: _____

Recommended Videos Before Doing the Density Experiment

Graduated cylinder:

<https://www.youtube.com/watch?v=7ewRaV5baik>

Pipet

<https://www.youtube.com/watch?v=qorl6rKLMRs>

Buret

<https://www.youtube.com/watch?v=2yaBjZ3AHh4>

https://www.youtube.com/watch?v=VsKF_NCE3I

Analytical balance:

<https://www.youtube.com/watch?v=aHgTJkzgd0g>

Recommended Video for Acid/base Titration

<https://www.youtube.com/watch?v=i7jnSafIMuc>