

Chemistry 1211K Laboratory

Instructor: Dr. Jeremiah D. Harden
Contact: 301 Petit Science Center (PSC), jharden@gsu.edu, 404-413-5560
Office Hours: Mondays 9-11 am; Wednesdays 9-11 am,
or by appointment.

Withdrawal Date: Friday, June 29 – MUST withdraw from both lecture and lab.

Lab Meetings: 1:00 – 4:25 pm every Monday AND Wednesday
Pre-Lab Lecture: Monday 1:00 - 3:45 pm in NSC 218
Lab: Monday 3:45 - 6:00 pm in NSC 234

Lab Manual: The Identification of an Organic Acid, 3rd Ed.
(supplied by lab coordinator in the first lab period)

Web Site: http://chemistry.gsu.edu/ugrad_students.php

Laboratory Materials Required:

- 1) A stitched and bound notebook; *no spiral notebooks, no tear-out pages*
- 2) Safety goggles or glasses. May purchase from lab coordinator, safety glasses: \$4.70; safety goggles: \$5.80.

Attendance: Students are expected to attend EVERY pre-lab lecture and lab session.

Grading: Lab Manual pp. 10 -11, 26 - 28. The laboratory constitutes 25% of the course grade. Except for the first experiment on density, the rest of the lab activities are designed as an INDIVIDUALIZED STUDENT PROJECT that will continue throughout the semester.

Lab Notebook: Lab Manual pp. 9 - 10. You must have a *bound and stitched lab notebook*. Leave three pages blank at the front of the notebook for a Table of Contents. All pages must be numbered and dated. All data must be recorded in this notebook **in ink**. *Do not use pencil. Do not record data on loose sheets of paper*. Your lab notebook will be checked from time to time, and signed each lab period.

Data, Quizzes, Examinations and Reports:

Expect a pre-lab quiz covering that day's lab each pre-lab lecture.
Data sheets are due as specified in the schedule below
A formal comprehensive final report due on July 23rd.
Lab notebook due on July 23rd.
Lab drawer checkout due by July 23rd.

Safety: Safety glass or goggles *must be worn at all times, no exceptions*.

No open-toe shoes (flip-flops, sandals, crocks, etc.), no exceptions.

No food, drink, gum, etc. , no exceptions.

Failure to follow safety rules will result in expulsion from the lab with no make-up allowed.

Safety glasses required at all time.

Lab appropriate attire is mandatory (No shorts, sandals or open-toed shoes)

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 resource.

Cleaning up is an important 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 4:25 pm

Session 1	June 6th	Introduction, safety video, check-in.
Session 2	June 11th	Density experiment
Sessions 3	June 13th	Recrystallization Experiment
Session 4	June 18th	Melting Point Experiment
Session 5	June 20th	Standardization of NaOH solution (KHP experiment)
Session 6	June 25th	Titration of HCl
Session 7	June 27th	Equivalent Weight Determination
Session 8	July 2nd	Computer Search
No Session	July 4th	Holiday (No Class)
Session 10	July 9th	Pka Determination
Session 11	July 11th	Pka Determination Continued
Session 12	July 16th	Sodium Fusion Test
Session 13	July 18th	Finish Pka experiment if needed
Session 14	July 23rd	Final Exam and Final Report and Notebook Due

Students must turn in a report on density and have the instructor record their data for recrystallization, melting point, molarity of NaOH and HCl, and Equivalent Weight of unknown after the conclusion of each of these experiments.

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.

Key Dates

Class Begins Wednesday June 6th

Semester Midpoint is Friday June 29th

A formal comprehensive final report due on Monday July 23rd

Lab notebook due on Monday July 23rd

Lab drawer checkout due by Monday July 23rd

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. 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. A written authorization signed by the instructor is required.
9. **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.
10. **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 fill out.
 - B. The student must have the lab notebook signed by the TA or instructor after the lab. We do not accept any other options of records keeping

