



Principles of chemistry I lab: CHEM 1211K 4 credit hours

Instructor: Dr. Yao Xin (E-mail: yxin3@gsu.edu)

Lecture Time and Location: Thursdays, 1:00 to 4:00 am

Pre-lab Lecture: NSC218 **Lab:** NSC234

Office Hours: Fri 12:30 - 1:30 pm or by appointment. **Office:** Langdale Hall 924

Lab Coordinator: Ms. Dunay Busto, NSC 236, dbusto@gsu.edu

Course Objective:

Gain hands-on experience in scientific observation, measurement and analysis using different mass and volumetric instruments and spectrometers. Learn basic techniques including recrystallization, titration and pK_a measurements. Learn to write ACS-style laboratory reports.

Course materials:

A laboratory manual titled "The identification of an organic acid" and edited by Dr. Pedro C. Vasquez will be provided at the check in date.

Class Attendance: Students are required to attend all laboratory sessions including a pre-lab lecture. Signing in and out of each laboratory are required. No make-up labs.

Safety is the first priority in the laboratory.

Grading:

All total of 400 points will be added to your 1211 lecture grades.

Final examination 80*

Notebook 20*

Study Questions and Quizzes 30

Final report (overall) 50*

Experiment results and analysis 220

Final examination, notebook, and final report are required to obtain a grade

Laboratory report guideline:

Students should analyze the data and write each report independently. If the report is not turned in on time, 5% off for each past-due day. Reports over 2 days overdue

will not be accepted for grading. A guideline for writing the lab report in on Page 5 of the lab manual.

Chemistry Department's Student Integrity Policy:

All assignments including lab reports, exams and tests taken must represent your individual, unaided efforts. Receiving unauthorized outside information or offering unauthorized information to another student during an examination is cheating. Any suspected offenses will be reported to the Department of Chemistry and the College of Arts and Sciences for appropriate action.

Tentative Schedule:

On Page iii (the second page) of the lab manual. There may be minor changes according to the class announcements. In summary, the first two lab is safety training and density experiment. Lab 3-12 term project: identification of unknown organic acid. Lab13: Lab final exam and check out.