

Chemistry 265 Laboratory

Objective: To familiarize the student with basic data analysis skills and laboratory techniques commonly used in the quantitative analysis of chemical samples.

TEXT AND SUPPLIES

1. *Quantitative Analysis Laboratory Manual Chemistry 265*, ed. P. Loftin.
2. Laboratory notebook with duplicate pages
3. Approved safety goggles
4. Scientific calculator

Testing and Grading: 75 % of your overall grade in Chem 265 will come from the lecture; 25 % will be based on your performance in the laboratory. The laboratory portion of this course will consist of eight experiments that will account for 80 % of the laboratory grade and a lab final exam that will account for 20 % of the laboratory grade. Most of the experiments (7 out of 8) will deal with the quantitative determination of an analyte. *Your grade will be based on your accuracy in determining the amount of analyte.* The grade for each individual experiment will be based 70 % on the accuracy of your analysis and 30 % on your laboratory notebook. The absolute error will be used as an indication of accuracy. In order to receive full credit for an analysis, the absolute error must be less than or equal to the following values.

Experiment #	Analyte Reported	Absolute Error
2	% Cl	0.10 %
3	% Na ₂ CO ₃	0.20 %
4	MW of acid	2.00 g/mol
5	% Cu	0.10 %
6	Mg concentration	2.0 ppm
7	% Mn	0.01 %
8	% 2-propanol	1.0 %

Notebook Grade: Your laboratory notebook must have duplicate pages so that the carbon copy pages can be turned in to your instructor for grading. See the lab manual for the outline of your notebook reports. All entries in your laboratory notebook must be in ink. Although you should strive for neatness, don't worry if you make a mistake when writing in your notebook; draw a line through your mistake and continue writing.

Lab Reports: Lab reports are not "group activities" and should be completed independently by each student. Copying of lab reports is cheating. Lab reports are due at the beginning of the period on the next scheduled lab meeting following completion of an experiment. Lab reports handed in after lab starts will be considered late and ten points will be deducted from the final grade. Ten points will be deducted from the lab report for each additional day that it is late. One late report will be accepted without a deduction of

points; the late report must be turned in within one week of the due date or it will not be accepted.

Attendance: Attendance at all laboratory sessions is mandatory. Lab starts promptly on time. It is up to the instructor's discretion whether or not a student that arrives late will be allowed to complete the lab. There will not be any make-up labs. It is the student's responsibility to complete all laboratory experiments and submit lab reports by the due date stated in the attached laboratory schedule. If a student does miss a laboratory session, written documentation from the Dean of Students office will be required to make up the lab grade. In this event, the student will be given a written assignment covering the material discussed in lab to make up the missed lab.

Academic Policy: All students are expected to follow the academic policies of the University of South Alabama as explained in section 8.2 of the Faculty Handbook. For more details see <http://www.southalabama.edu/academicaffairs/handbook.pdf>

Check-Out Policy: In keeping with departmental policy, if a student fails to check-out their drawer on the assigned date (see attached laboratory schedule) the drawer will be checked out by the instructor and a \$50.00 fee will be charged to the student.

Students with Disabilities: In accordance with the Americans with Disabilities Act, students with bona fide disabilities will be afforded reasonable accommodation. The Office of Special Student Services will certify a disability and advise faculty members of reasonable accommodations. If you have a specific disability that qualifies you for academic accommodations, please notify me and provide certification from Disability Services (Office of Special Student Services). The Office of Special Student Services is located in the Student Center, Room 270, Phone 460-7212.