

Chemistry 436 — Winter 1996

Physical Chemistry Laboratory — 1st credit

Instructor: John B. Miller
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Office Hours: 1700–1750 W
1200–1250 R
or by appointment

Class: 1300-1700 W or R or F, M^cCracken 4210 & 4250

Supplies: Safety Goggles and Laboratory Notebook.

Prerequisite: Chem 430 or Chem 535.

Text: Daniels, *et al.*, *Experimental Physical Chemistry*
Manual: Houser, Schreiber and Lowry, *Physical Chemistry Laboratory*.

Assignments: The statistical problem set will be due the second week of class.

You will perform five laboratory experiments. Experiments 1, 2, 3 and 4 are required. In addition, either 6 or 7 may be chosen.

An abstract for each experiment is due by 1700 the day before the experiment is to be performed. The abstract should be about one page and consist of a brief synopsis of the experiment, including important theories, procedures, hazards and cautions relating to the experiment. This is an important part of the preparation for the laboratory.

Note also that the laboratory manual will **not** be permitted inside the classroom. All relevant procedures and warnings must be written in the laboratory notebook **prior to** the laboratory session. This is to ensure that you understand the experiment before attempting to perform it.

A report for each experiment is due by 1700 one week after completion of that experiment. The reports should conform to the guidelines set forth in the laboratory manual. Grammar, punctuation, style, and neatness all count.

Laboratory reports and abstracts will be graded and returned within two weeks.

Grading:

Statistical Problem set	1 @ 100 points
Experimental reports	5 @ 100 points
Prelab abstracts	5 @ 15 points

Late Work: Late statistical problem sets will be assessed a penalty of 10%. Problem sets more than one week late will **not** be accepted.

Late Experimental abstracts will be accepted but given zero points.

Late Experimental reports will be assessed a penalty of **10% per week**. Reports more than three weeks late will **not** be accepted.

Lab Rules: Safety Goggle or Safety Glasses with side shields must be worn at all times in the laboratory.

Contact lenses are not permitted, even if worn with safety goggles.

Open-toed shoes are not permitted. Long pants are suggested. Loose, dangling clothing (scarves, ties, baggy sleeves, long necklaces) should be avoided. If clothing is deemed to be a safety hazard by the instructor, you will be required to change into appropriate attire.