

CH 434L - ADVANCED ANALYTICAL CHEM LAB  
SPRING SEMESTER 1999  
W 10:00 - 1:00 P.M.  
2:00 - 5:00 P.M.

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TEXT: By Xerox

WEEK	DATES	EXPERIMENT
1 & 2	Jan 13, 20	Statistics; determination & propagation of uncertainties
3 & 4	Jan 27, Feb 3	UV-Visible spectroscopy
5 & 6	Feb 10, 17	Gas chromatography
7 & 8	Feb 24, Mar 3	IR Spectroscopy
9 & 10	Mar 10, 17	HPLC
11 & 12	Mar 31, Apr 7	Atomic Absorption
13 & 14	Apr 14, 21	NMR
15	Apr 28	FINAL

Students completing CH 434L will have gained an understanding of the principles and techniques of various modern instrumental methods. In particular, they will have gained familiarity with the statistical treatment of data and propagation of error, and will be familiar with several types of spectroscopic, chromatographic, and electrochemical analyses. Students will have gained practice in the maintenance of a laboratory notebook.

The lab reports should be brief and concise, and consist of the following:

1. An abstract describing what you did, how you did it, and results obtained.
2. Relevant chemical questions.
3. Sample calculations & propagation of uncertainty; sources of error.
4. Statistical treatment of data & interpretation when several determinations/measurements are made.

#### GRADING

Lab reports	35%
Lab notebook	35%
Final	30%

ALOHA NO.