

CHEMISTRY 321

PHYSICAL CHEMISTRY LABORATORY I

Fall 2009

2:00 - 5:00 pm, F
CNSB 142

INSTRUCTOR INFORMATION

Instructor:	Dr. Gary L. Findley
Office:	CNSB 202
Office Hours:	11:00 am - 1:00 pm M-F
Telephone:	342-1835
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COURSE

Content: Modern experimental techniques of physical chemistry.

Goals/

Objectives: Physical Chemistry Laboratory introduces the student to modern experimental methods including: High vacuum and ultrahigh vacuum systems (turbomolecular pumps and ion pumps), digital data acquisition fundamentals using the GPIB interface, data collection and data analysis software and IEEE-488 electronic devices. The focus for Physical Chemistry Laboratory I is on thermodynamics and chemical kinetics.

REQUIREMENTS

Prerequisite: "C" or better in CHEM 241 (Quantitative Analysis Laboratory) and credit or registration in CHEM 320 (Physical Chemistry I).

Text: *The Laboratory Companion*, Gary S. Coyne (Wiley-Interscience, New York, 1997), and appropriate handouts concerning data acquisition, electronics and optics.

Material

Covered: Chapters 1 - 7.

Attendance: This laboratory meets 3 hours per week.

EVALUATION

Reports: Five Laboratory Reports will be required during the course.

Grading:

lab reports	<u>500</u>	90 - 100%	A
COURSE TOTAL	500 pts	80 - 89%	B
		70 - 79%	C
		60 - 69%	D
		< 60%	F

Mid-term grades will be posted on Arrow. (Note that mid-term grades do not necessarily reflect final grades.)

Drop Date: The final date to drop a course is November 2.