

CHEMISTRY 402-01

PHYSICAL CHEMISTRY II

Spring 2003
11:00 am - 12:20 pm, TuWTh
Rm. CNSB 211

INSTRUCTOR INFORMATION

Instructor: Dr. Gary L. Findley
Office: CNSB 202
Office Hours: 9 - 11 am (M-F)
Telephone: 342-1835
Email: findley@ulm.edu
URL: <http://www.ulm.edu/chemistry/findley>

COURSE

Content: Fundamental interpretations of the physical principles of chemistry
Goals/
Objectives: CHEM 402, which is a continuation of CHEM 401, focuses on the quantum theoretical foundations of modern chemistry. Topics covered include: introduction to quantum theory, atomic structure, molecular structure, spectroscopy, statistical thermodynamics, and the electric and magnetic properties of molecules.

REQUIREMENTS

Prerequisite: "C" or better in CHEM 401 (Physical Chemistry I).
Text: *Physical Chemistry*, Peter Atkins, 6th ed. (W. H. Freeman, New York, 1998).
Material Covered: Chapters 11 - 20, 22, and other topics as time permits.
Attendance: It is your responsibility to attend class and to be punctual. Unexcused absences and/or habitual tardiness will result in a grade penalty, in accordance with the ULM Code of Student Conduct.

EVALUATION

Exams: There will be three one-hour exams and a final exam. *All exams will be cumulative.*

exam 1	100 pts	Feb 6
exam 2	100 pts	Mar 13
exam 3	100 pts	Apr 10
final exam	200 pts	May 8

One make-up examination – which will cover the entire course – will be given on May 13. This examination can be taken only by arrangement with the instructor, and will require the presentation of a valid university excuse (ULM Code of Student Conduct).

Homework: There will be ten homework assignments, each worth 10 pts. Late homework will not be accepted. *You may not consult homework solutions or exam solutions made available during previous years, or published compendia of worked problems.* Homework will be assigned at <http://www.ulm.edu/chemistry/findley> under the student resources button.

Grading:	exams	300 pts
	final exam	200
	homework	<u>100</u>
	COURSE TOTAL	600 pts

A	537 - 600 pts
B	477 - 536
C	417 - 476
D	357 - 416
F	< 357