

Chemical Kinetics and Thermodynamics

Chemistry 360

Section: D100

Term: 2001 Spring

Instructor: Dr. I. Gay. Office: SSB-7100.

Discussion Topics: General Course Description:

Elements of physical chemistry from a macroscopic point of view. Thermodynamics, and its applications to chemical equilibrium,

phase changes and the properties of solutions. Chemical Kinetics.

3 lecture hours/week; 1 tutorial hour/week; 0 lab hours

Topics:

Weeks 1-4. Gases, The First Law of Thermodynamics

Weeks 5-9. The Second Law of Thermodynamics

Weeks 10-13. Empirical Chemical Kinetics

Grading: Problem Sets 20%; Mid-terms 30%; Final Exam 50%.

Required Texts: Atkins, "Physical Chemistry", 6th Edition, 1998. Publishers: Freeman & Co.

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Recommended Texts: None

Materials/Supplies: None

Prerequisite/Corequisite: Prerequisite: CHEM 122 (or 103), MATH 152 (or 155) and
PHYS 121 (or 102). MATH 251 and CHEM 260 are recommended.

Students may not count both CHEM 360 and CHEM 261 for credit.

Notes: None

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