

## CHE 446G Syllabus

Fall 2007

Professor: Carolyn P. Brock  
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 Office Hours: M, Tu, W 2:30-3:30 PM, or by appointment

Textbook: I. N. Levine, *Physical Chemistry*, 5th Ed., McGraw-Hill, 2002  
 (Solutions Manual recommended)

Class Meetings: 11-11:50 AM; M,W,F in CP-103

Web Address: <http://www.chem.uky.edu/courses/che446g/>

<i>Chpt</i>	<i>Topic</i>	<i>Dates</i>
Review	Introduction; Chemistry Review	Aug 22
18	Quantum Mechanics	Aug 24, 27, 29, 31, Sept 5, 7
21	Spectroscopy; Photochemistry	Sept 10, 12, 14, 17
19, 20	Atomic and Molecular Structure	Sept 19
<b>18, 21</b>	<b>Hour Exam I</b>	<b>Sept 21</b>
19, 20	Atomic and Molecular Structure, con't.	Sept 24, 26
15	Kinetic-Molecular Theory of Gases	Sept 28, Oct 1
22	Statistical Mechanics	Oct 3, 5, 8
1	Thermodynamics (Introduction)	Oct 10
2	First Law of Thermodynamics	Oct 12
<b>19/20, 15, 22, 1</b>	<b>Hour Exam II</b>	<b>Oct 15</b>
2	First Law of Thermodynamics, con't.	Oct 17
3	Second Law of Thermodynamics	Oct 19, 22
4	Phase and Reaction Equilibria	Oct 24, 26
5	Standard Functions and Tables	Oct 29, 31
6	Reaction Equilibria in Mixtures of Ideal Gases	Nov 2, 5
7	One-Component Phase Equilibria	Nov 7
9	Ideal Solutions	Nov 9
10	Real Solutions	Nov 12
<b>2-7, 9</b>	<b>Hour Exam III</b>	<b>Nov 14</b>
11	Reaction Equilibria in Real Systems	Nov 16, 19
12	Multicomponent Phase Equilibria	Nov 26, 28
14	Electrochemistry	Nov 30, Dec 3
17	Reaction Kinetics	Dec 5, 7
<b>All Covered</b>	<b>Final Exam</b>	<b>Dec 10 (10:30 AM)</b>