Chem 342  Physical Chemistry I  Syllabus Winter 2006

Time and Place:  MWF 9:20-10:27 AM  386 SEB
        Recitation Th 12-1PM  386 SEB
Instructor:  M. D. Sevilla, Distinguished Professor
Office:  248 SEB
Email:  sevilla@oakland.edu  Phone: 248-370-2328
Office hours:  MWF 10:30-11:30AM or by appointment
Textbook:  Physical Chemistry, seventh edition by Atkins and de Paula

Overview:  This course covers thermodynamics and kinetics.  Students will learn the
laws of thermodynamics and mathematics needed to employ these laws.  Applications of
these laws to chemical systems including equilibria and electrochemistry will be
covered.

Class Format:  There will be weekly homework assignments which will not be collected
or graded unless otherwise indicated. Physical chemistry requires extensive practice in
problem solving. Doing the assigned homework is therefore essential. Examinations will
test the homework material extensively. There will be three one hour exams (100 pts) and
one cumulative final (200 pts). The recitation time will be employed for answering
questions and problem solving.

Week of
Jan 4-6  Calculus Review, Chapter 1 and Math Rev. p. 1051-1054
Jan 9   Chapter 24 and 2
Jan 16  Chapter 2
Jan 23  Chapter 3
Jan 30-Feb 2  Chapter 4
Feb 3     Exam 1  Chapters 1-4 (24)
Feb 6   Chapter 5
Feb 13  Chapter 6
Feb 20  Chapter 7
Feb 27-March 3  Winter Break
March 6-10  Chapter 8
March 10  Exam 2 Chapters 5-7
March 13  Chapters 8
March 20  Chapter 9
March 27  Chapter 10
April 3  Chapter 25
April 10  Exam 3  Chapters 8-10, 26
April 10  Chapter 26
April 17  last day of class

April 20  Thursday  Final Exam  12-3 PM  386 SEB