

# CHEM 336 Schedule & Guidelines

Spring 2007

- This is your first semester PCHEM lab. Please, pay particularly attention to the following rules and recommendations.
- First of all, a lecture (followed by a discussion) will precede the actual experiment. **It is crucial to study the material (method and procedure) before arriving in the lab. Your active participation in the discussion will be an indication of your more or less preparedness. As indicated in the schedule, the first three weeks are devoted to spreadsheet exercises and graphics, purposely giving more than enough time to absorb the first three chapters of the textbook**
- Second, there **always** will be a quiz at the beginning of each session, another reason why you should read the material ahead. Questions will vary from "True/False" to small calculations problems. Please, take this very seriously. Quizzes will weigh much more in your total score than they did for your General Chemistry labs. .
- Lastly, **make sure your lab reports are strictly personal. These are due right at the beginning of the lab. If, for medical reasons, you are unable to turn your work in on the due date, please, provide a valid doctor's office proof when you show up. No exception!!!**

## Schedule

Text #8 & Supplement I

WEEK OF	GRADE	SUBJECT	EXPERIMENT #
01/22	N/A	Introduction and Check-in	Handout
01/29	10	Spreadsheet Exercise	Supplement I
02/05	10	Applications of Spreadsheet and Graphics Solution(Cont.)	Supplement I
02/12	10	Applications of Graphics	Supplement I
02/19	N/A	Partial Molar Volumes	Text #9 & Supplement I
02/26	20	Partial Molar Volume (Cont.)	Text #9 & Supplement I
03/05	40	Mid-term Exam	N/A
03/12	N/A	<b>Spring Break</b>	N/A
03/19	N/A	Heat Capacity & Heat Mixing	

03/26	20	Heat capacity & Mixing (Cont.)	Text #8 & Supplement I
04/02	N/A	Binary L-V Phase Diagram	Text #14
04/09	20	Binary L-V Phase Diagram (Cont.)	Text #14
04/16	10	Surface Tension	Text #25
04/23	40	<b>Final Exam and Check-out</b>	N/A
04/30	N/A	N/A	N/A

- If you are a student with a disability and you need academic accommodations, please see me and contact the Disability Resource Center(DRC) at (703)-993-2474.

## Announcements

### Exam material include:

- Wan der Wall real gases: meaning of parameters a and b, including their units, and Wan der Waals loops.
- Data analysis: the Q test to reject outliers, and using a given regression line.
- Partial Molar Volumes: derivation of equations, given appropriate starting points, all relevant calculations, and related graphs exploitations.
- Heat capacity and heat mixing: make sure you know every single formula that

was provided to you last time. You will be given a few data to calculate some parameters with.

- Finally, pay particular attention to units!!!

THANKS.