

CHEM 337 Schedule & Guidelines

Spring 2007

- This is your second semester PCHEM lab. It is my responsibility to remind you of the following guidelines and rules.
- First of all, a lecture (followed by a discussion) will precede the actual experiment. Please, **carefully read the material before arriving in the lab. Your active participation in the discussion will be an indication of your more or less preparedness.**
- Second, there **always will be a quiz at the beginning of each session. 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

| WEEK OF | GRADE | SUBJECT | EXPERIMENT # |
|---------|-------|--|--------------------|
| 01/23 | N/A | Introduction and Check-in | Handout |
| 01/30 | N/A | Adsorption from Solution | Supplement II |
| 02/06 | 20 | Adsorption from Solution(Cont.) | Supplement II |
| 02/13 | 10 | Binding Energy of Molecules by Viscosity Measurement(Cont.) | 28 |
| 02/20 | N/A | Molecular Weight of a Polymer: calibration of Viscosimeter | 28 |
| 02/27 | 20 | Molecular Weight Determination | 28 |
| 03/06 | 10 | Absorption Spectrum of a Conjugated Molecule(Particule in a Box) | 34 & Supplement II |
| 03/13 | N/A | Spring Break | N/A |
| 03/20 | N/A | Chemical Kinetics(Iodine Clock) (1): Preparation of Solutions | 20 & Supplement II |
| 03/27 | 20 | Iodine Clock(2): Kinetics and Mechanism | 20 & Supplement II |

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| 04/03 | 10 | NMR Spectroscopy | 42 & Supplement II |
| 04/10 | 10 | Dipole Moment of Polar Molecules in Solution | 30 & Supplement II |
| 04/17 | 10 | IR Spectroscopy:Rotation-Vibration Spectrum of HCl | 37 & Supplement II |
| 04/23 | N/A | Make-up | N/A |
| 04/30 | 40 | Final Exam | 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

These are some guidelines to help you prepare for the quiz and the dicussions: make sure you understand the differences between chemisorption and physical adsorption, the meaning of N and Nm, the exploitation of equation (3) of page 6, and how to calculate volumes (dilutions of acetic acid solutions).

Thanks.