Fall 9-1-2000

CHEM 371.01: Physical Chemistry I

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The University Of Montana

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Chemistry 371
A systematic treatment of the laws and theories relating to chemical phenomena.
Autumn 2000    MWF 8:10-9:00 am  CP102

Instructor: Sherri Arrieta    Office: CP 006    Contact: Phone: 243-4163
e-mail: arrieta@selway.umt.edu

Required Textbook: Physical Chemistry by George Woodbury

Office Hours: MWF 9-10
You are welcome to stop in with questions at anytime, except Tuesdays.
The above office hours simply guarantee that I will be there.

Prerequisites: Chem 162, Math 251 (Calculus III), Phys 122 or 221, CS 101 or 172.
Mathematics is the foundation of physical chemistry. I strongly recommend you have an adequate background in mathematics (as required above) before enrolling in this course.

Homework: I believe it is absolutely necessary to work problems in order to learn chemical concepts and highly recommend you complete, at least, all the problems within the text as you read the chapters, Doing this will make points more valid and keep you awake (which is a most important step in the learning process). As we cover the text I will also suggest other problems to help focus your studies.

Help Sessions: ?

Examinations: There will be three one-hour, in-class exams during the semester. Each of these exams covers approximately three chapters and will be given on Fridays with a review/help session the night before (see calendar). The class will conclude with a final exam on Wednesday, December 20, which will be comprehensive but emphasize (60-70%) material covered after the third exam. It is likely that I will be at a conference Dec. 15-19. We can schedule a review session sometime on Dec. 19, but I will not be available before then.

Possible Points:
- Exams (100 points x 3 exams) 300
- Final 200
- 500 total points possible
# Chemistry 371
## Autumn 2000

### September:
- **6 Wed.** Chapter 1. Preliminaries.
- **8 Fri.**
- **11 Mon.** Chapter 2. First Law of Thermodynamics.
- **13 Wed.**
- **15 Fri.**
- **18 Mon.**
- **22 Fri.**
- **25 Mon.**
- **27 Wed.**
- **29 Fri.**

### October:
- **2 Mon.** Chapter 4. Mathematical Tools.
- **4 Wed.**
- **6 Fri.** Exam 1. Chapters 1-4  
  **Review session: Thurs. 7-9 pm**
- **9 Mon.** Chapter 5. Fundamental Equations and Free Energy.
- **11 Wed.**
- **13 Fri.**
- **16 Mon.** Chapter 6. Pure Substances.
- **18 Wed.**
- **20 Fri.**
- **23 Mon.** Chapter 7. Mixtures.
- **25 Wed.**
- **27 Fri.**
- **30 Mon.** Chapter 8. Chemical Equilibrium.

### November:
- **1 Wed.**
- **3 Fri.** Exam 2. Chapters 5-7  
  **Review session: Thurs. 7-9 pm**
- **6 Mon.** Chapter 9. Phase Equilibria with Solutions I.
- **8 Wed.**
- **(10 Fri. No Class- Veteran’s Day)**
- **13 Mon.**
- **17 Fri.**
- **20 Mon.**
- **(22 Wed. No Class- Thanksgiving Break)**
- **(24 Fri. No Class- Thanksgiving Break)**
- **27 Mon.** Chapter 11. Phase Equilibria with Solutions II.
- **29 Wed.**

### December:
- **1 Fri.** Exam 3. Chapters 8-10  
  **Review session: Thurs. 7-9 pm**
- **4 Mon.** Chapter 12. Electrochemical Cells.
- **6 Wed.**
- **8 Fri.**
- **11 Mon.** Chapter 13. Thermodynamics of Surfaces.
- **13 Wed.**
- **15 Fri.**

**Final Exam:** Wednesday, December 20  
8:10 am- 10:10 am