

CH 344L Physical Chemistry Laboratory

Lab Section: 01 W 2:00-4:50 pm, Henry Hall 43

Instructor: Janet Jensen

Office: Henry Hall 24

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**Office Hours: MWF 9:30-10:30 am, TuTh 12:00-1:00 pm,
or by appointment**

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Materials:

- safety glasses and covered footwear
- composition style notebook

Course Description and Objectives:

CH 344L is the second semester of a two-semester physical chemistry laboratory course. Concurrent registration in CH 344 is required.

The main goals of this course are:

- to equip you with the practical skills used in physical chemistry
- to develop your scientific judgment and your ability to innovate and think critically
- to improve your skills of research and communication through the documentation of a scientific experiment, and the presentation of information in both oral and written laboratory reports

Class Requirements:

The experiments performed in lab this semester may not be synchronized with the material covered in the lecture course. Therefore, it is important that you carefully study the theory and procedures before carrying out each experiment. Copies of the experimental procedures will be handed out in class.

You are expected to complete five experiments this semester. The first four of these experiments will be performed in groups of two or three students. The first and third lab reports will be group oral presentations, using PowerPoint or overheads. The second and fourth experiments will require written lab reports. Although you may discuss the data and results with your partner, the reports should be written independently. The last experiment will be carried out individually and presented as an oral report.

Grading:

Each ~~experiment~~ will be worth 100 points. An additional 50 points will be assigned based on attendance, general lab skills and attitude (safety and **clean-up**). The tentative grading scale to determine the course grade is:

90-100% A 80-89% B 65-79% C 40-64% D below 40% **Fail**

The lab reports will be graded on the following criteria:

- organization
- completeness
- clarity
- graphics
- format
- references
- understanding
- quality of results

Lab Schedule:

Week	Dates	Activity
1	16-Jan	Lab introduction
2	23-Jan	<u>Experiment 1</u>
3	30-Jan	<u>Experiment 1</u>
4	6-Feb	<u>Experiment 2</u>
5	13-Feb	<u>Experiment 2</u>
		Oral Presentations of <u>Exp. 1</u>
6	20-Feb	<u>Experiment 2</u>
7	27-Feb	<u>Experiment 3</u>
8	6-Mar	<u>Experiment 3</u>
		Written <u>Report</u> on <u>Exp. 2</u> due
9	13-Mar	<u>Experiment 3</u>
10	20-Mar	Oral Presentations of <u>Exp. 3</u>
	27-Mar	S rin Break
11	3-Apr	Experiment 4
12	10-A r	Ex eriment 4
13	17-Apr	<u>Experiment 5</u>
14	24-A r	<u>Experiment 5</u>
15	1-Ma	Individual Oral Presentations of <u>Exp. 5</u> —
		<u>Written Report</u> on <u>Exp. 4</u> due