

CHEM 1132 – FALL 2010

Name and Contact Info
Raymond R. Sadeghi,
Email: raymond.sadeghi@utsa.edu

Office and Hours
SB 3.01.28
MTW 11:00-12:00; TR 445-5:30

Safety Considerations

This course is the single most dangerous course at the University with respect to the potential exposure of the student to physical hazards. There will be absolutely no tolerance for inappropriate behavior.

This means:

- You will wear your goggles at all times in which you are in the laboratory. I don't care if they are uncomfortable. I don't care if they fog up. I don't care if the other students aren't wearing them.
- You will not wear open-toed shoes, sandals, clogs, skirts, shortened pants, shorts, or any garment which fails to cover the legs and feet. You will not bare your midriff. You will not wear tank-tops or other garments which similarly expose the chest/torso area. You will generally dress in as modest of an outfit/style as your wardrobe can accommodate.
- You will not drink, eat, inhale, taste, touch, consume, lick, snort, or otherwise imbibe laboratory chemicals.
- You will turn your cell phones off before entering the laboratory.
- You will not answer your cell phones in the laboratory (since they should be off, you will not find this difficult).
- You will bind long-hair into a rear-fastened arrangement to prevent accidental contamination of your experiment.
- You will arrive in a punctual fashion.
- You will not eat, drink or smoke any substance normally intended for consumption during your laboratory session lab.
- You will not come to lab chemically impaired.
- You will eat before your laboratory session.
- You will notify the instructional team if there is an accident, **OF ANY TYPE**.
- I strongly encourage you to eat something before the lab session begins.

Violation of safety protocols will result in severe sanctions, including dismissal from the class for the week, or possibly the semester. Examples will be made. Intentional or repeated violations of safety protocols will result in administrative dismissal from the course, and the filing of criminal charges, if appropriate.

Course prerequisites

Completion or concurrent enrollment in CHE 1113; please refer to the UTSA course catalog.

Syllabus and Course updates

Updates to the syllabus, electronic handouts and other information are available on Blackboard. Students are expected to be familiar with the contents of the current syllabus, including all updates. The posting of such updates is announced in lab lectures.

Class Meeting Times

Lab Lecture Period

M 8:00-8:50, SB 2.03.12

W 4-4:50 SB 2.03.12

Attendance Policy

You are required to attend the lab section you are registered for, and no other. You are required to attend lab lecture. You may attend any or all office hour sessions at your discretion. You may attend either or both lab lectures.

Student Conduct with Respect to Instructional Team

The instructional team refuses to acknowledge any situation where students do not accept full responsibility for their choices and actions.

The instructional team expects students will take personal responsibility for the advancement of their own learning.

The instructional team further expects students will take personal responsibility for maintaining the laboratory and its equipment in optimal working condition.

Email is the most reliable way to get a hold of the instructors. However, your emails should:

- Be concise
- Appropriately capitalized and punctuated
- Contain good, if not perfect, grammar
- Contain a logical structure of thought
- Be spell-checked

In summary, your emails should be well-written. If the email is not worth your time to write well, it is probably not worth our time to read. If an email is found to be lacking in the above standards, the mails will not be acknowledged as received.

You may visit any of the instructional team during office hours. Requests for appointments outside of the normal office hours should be directed to Dr Sadeghi.

Grading

The overall course grade will be assigned as follows:

- 86%+ A
- 70-85% B
- 53-69% C
- 40-52% D
- 0-39% F

The course grade will be assigned 45% on basis of the laboratory reports. The remaining 55% of your grade will come from midterm and final exam.

If you are dismissed from a lab for failing to adhere to appropriate safety protocols, you will be assigned a zero for the lab in question.

I will not entertain request for adjustments to the grade for any reason other than arithmetic error on my part. Lab reports which are turned in more than one week after the laboratory exercise is scheduled will receive no credit.

Lab reports should be written objectively, dispassionately and with good scientific style. I want to look at them and be impressed. Individual lab reports will be graded on the basis of the following categories:

- Pre-lab (completed prior to the laboratory period), 20%, including:
- Post Lab, 30%
- Filling the lab reports.

It is your job to know the relevant procedures for withdrawal from the course, should such a course of action be necessary.

Without prior approval from the Dean's office, as evidenced by forms signed by the appropriate assistant or associate dean, I will not entertain any request for incomplete.

Makeup Policy

If there is sufficient **documented** evidence that an absence from a laboratory period is justified, makeup experiments may be requested to be scheduled at a time of mutual convenience for the student and the laboratory. **The documentation for such a request is due no later than one week after the absence. The makeup must be completed no later than two weeks after the absence.** General procedure

- When in doubt, think. If that doesn't work, ask.
- If you are confused, and there is no emergency, doing nothing is normally better than any other option.
- Our attempts to minimize the hazards in the lab do not alleviate you of the obligation to thoroughly understand the experiment you will be performing in a lab session.
- If you are standing in front of a hood with an experiment in progress, look at the experiment.

Assigned Text

General Chemistry Laboratory Manual, Petra van Koppen
ISBN-10:0-07-723841-9
ISBN-13: 978-0-07-723841-4

You must purchase the book.

UTSA policies and services regarding disabilities and academic dishonesty—

these may be found online at
Disability: <http://www.utsa.edu/disability/students.htm>
Academic dishonesty: <http://www.utsa.edu/infoguide/appendices/b.html> under
section 203

This Syllabus is provided for informational purposes regarding the anticipated course content and schedule of this course. It is based upon the most recent information available on the date of its issuance and is as accurate and complete as possible. I reserve the right to make any changes I deem necessary and/or appropriate. I will make my best efforts to communicate any changes in the syllabus in a timely manner. Students are responsible for being aware of these changes.

Information on the QEP

The Quality Enhancement Plan (QEP) is a course of action designed to enhance student learning and is a required component of the accreditation process conducted by the Southern Association of Colleges and Schools (SACS).

The UTSA QEP *Quantitative Scholarship: From Literacy to Mastery* provides you with the skills needed to evaluate and interpret data, understand risks and benefits, and make informed decisions in your personal and professional lives. The plan focuses on integrating quantitative reasoning and communication skills in **existing** courses across the undergraduate curriculum.

CHEM 1132 Lab Schedule
General Chemistry II Lab Fall 2010

Week	Exp	Topic	Text Chapter
8/25 - 8/31	0	Laboratory safety/check in	
9/7 - 9/10	1	Thermodynamics	6
9/13 - 9/17	2	Colligative properties	12, 13
9/20 - 9/24	3	Reaction Rates	16
9/27 - 10/1	4	LeChatelier Principle	17
10/4 - 10/8	5	Equilibrium constant	17
10/11 - 10/15	6	Acid-base Titration	19

10/19 - 10/22

Midterm Exam: held during the lab session worth 28% of the grade

10/25 - 10/29	7	Preparation of buffers	19
11/1 - 11/5	8	Oxidation-Reduction reactions (Handout)	21
11/8 - 11/12	9	Electrochemistry; check out	21
11/15 - 11/19	10	Scanning Electron Microscopy (Handout)	

11/30-12/3 Final Exam: Worth 32% of your grade.

Lab reports and homework count as 40% of your final grade.