

Course Syllabus

Course Information

CHM 1111, General Chemistry lab
Fall 2006

Professor Contact Information

Dr. Sandhya Gavva
972-883-2279
sgavva@utdallas.edu
BE 3.330
Office Hour: T 10-11 AM

Greg McGovern
Sections 601, 602 (M-T 5-8)
110 & 111 (Saturdays)
BE 3.330
gregthechemist@yahoo.com

Course Pre-requisites, Co-requisites, and/or Other Restrictions

One year of High School Chemistry

Course Description

Objectives: These courses reinforce the concepts of Freshman Chemistry in the lab via experiments. Students are offered the opportunity to acquire basic laboratory skills and an appreciation for the presence of chemistry in daily living. The experiments are designed to demonstrate concepts including properties of inorganic substances, principles of structure and bonding, oxidation reduction reactions and elementary quantitative analysis

Student Learning Objectives/Outcomes

1. Be able to explain the importance of Lab Safety
 2. Be able to collect and organize data in written laboratory reports
 3. Know how to measure mass and volume of chemicals
 4. Know how to separate a mixture by Chromatography
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Required Textbooks and Materials

General Chemistry Laboratory Manual
Department of Chemistry
University of Texas at Dallas

Safety Goggles/glasses, composition note book and a calculator

Assignments & Academic Calendar

There will be eight wet lab, three dry lab experiments during the semester. The wet lab will be 90 % of your lab grade, and dry lab will be 10%. There will be no makeup wet labs, no makeup dry labs; and you are not allowed to perform your experiments in another Lab section. Your final grade for the lab will be determined after dropping the lowest wet lab score.

<u>Day/Time</u>	<u>Section</u>	<u>Teaching Assistant</u>	<u>Office</u>	<u>E-mail</u>
M 2-5	112	Chalita R	3.502	cxr056000@utdallas.edu
M 5-8	601	Chi-Cheng Chiu	3.502	cxc058300@utdallas.edu
T 8-11	101	Georgia Serfling	3.502	glt012100@utdallas.edu
T 11-2	102	Georgia Serfling	3.502	glt012100@utdallas.edu
T 2-5	103	Stephanie Taylor	3.502	smt031000@utdallas.edu
T 5-8	602	Chi-Cheng Chiu	3.502	cxc058300@utdallas.edu
W 2-5	113	Chalita R	3.502	cxr056000@utdallas.edu
R 8-11	104	Georgia Serfling	3.502	glt012100@utdallas.edu
R 11-2	105	Judy Wahome	3.502	antaha2001@utdallas.edu
R 2-5	106	Judy Wahome	3.502	antaha2001@utdallas.edu
F 8-11	107	Pooja Bajaj	3.502	pxb044000@utdallas.edu
F 11-2	108	Pooja Bajaj	3.502	pxb044000@utdallas.edu
F 2-5	109	Stephanie Taylor	3.502	smt031000@utdallas.edu
S 8-11	110	Ana Opina	3.502	aco052000@utdallas.edu
S 2-5	111	Ana Opina	3.502	aco052000@utdallas.edu

Safety Policy:

No individual will be allowed in the lab without safety glasses. No individual will be allowed in the lab wearing short pants or skirt, or open-toed shoes. Do not sit on the benches. Chemical residues might contaminate your clothing. Do not eat or drink in the laboratory. If you must take a break, wash your hands thoroughly before leaving. Please refer to the *Undergraduate Laboratory Policies**. Given proper warning, students who do not comply with the safety rules will be asked to leave without receiving a grade for the experiment.

**Chm 1111
Lab Schedule
Fall 2006**

Week of		Exp. #	Experiment	Report Due
Aug 21	No Labs	*****	Recitation Begins	*****
Aug 28	Safety	Quiz	Check-in/Quiz on Safety	Sep 5
Sep 4	Wet Lab	2	Nomenclature	Sep 12
Sep 11	Dry Lab	1	Basic Lab Operations	Sep 18
Sep 18	Wet Lab	5	Spectroscopy	Sep 25
Sep 25	Dry Lab	6	Molecular Geometry	Oct 2
Oct 2	Wet Lab	3	Chromatography	Oct 9
Oct 9	Wet Lab	4	Identification of Compounds	Oct 16
Oct 16	Dry Lab	7	Handout	Oct 23
Oct 23	Wet Lab	8	Limiting Reactant	Oct 30
Oct 30	Wet Lab	9	Volumetric Analysis	Nov 6
Nov 6	Wet Lab	10	Vinegar Analysis	Nov 13
Nov 13	Wet Lab	11	Metathesis /Check Out	By Nov 20

Everyone will check out of the lab during the week of Nov 13. Failure to check out the lab will result in withholding of the lab grade. Monday Sept 4 is a holiday. Students enrolled in Monday Labs perform expt. # 1 and 2 following week.

Grading Policy:

Lab Preview	10 %
Lab Readiness	10 %
Lab Report	80%

- **Data Sheet**
- **Calculations**

Course & Instructor Policies:

WET LAB: BE 3.508

***<http://www.utdallas.edu/dept/chemistry/ugsafety.htm>**

Lab Preview: The lab experience is much more enjoyable when you have the basic, initial understanding of the experiment. Preview questions are designed to help you understand the concepts and techniques involved in each experiment. Previews will not be collected. However, you must show the preview to the instructor to receive the grade. The lab preview questions will help you better prepare for the quizzes. Answers to the lab previews will be available in the lab one week later. LATE previews will not be accepted and you will be given a ZERO

Lab Readiness: You are responsible for all of the required material and equipment for each experiment. You must dress appropriately and have all of the required materials (ie. Goggles, close-toed shoes, lab manual, pen...etc.).

Lab write ups: There is no formal report(s) required for this course. However, you will turn in the data sheets with all the required information for each experiment. Where appropriate, it is essential that you include calculations, detailed observations, balanced equations, percentage error, a brief conclusion* of the experiment, etc. Write ups are due on the next lab period (i.e., one week after the previous lab was completed). For example, if an expt. is performed between 2-5 PM on Monday, Sep 11, 2006, the lab report for that exp. will be due at the beginning of the next lab period at 2:00 PM on Monday, Sept 18, 2006. LATE write ups will be accepted but 10% of the maximum points allowed will be subtracted from a late write up EACH DAY it is late.

Data: Any data you collected during the experiment must be written in pen. In case of wrong entries, make a new table and explain what happened. Calculations can be written in pencil. Do not scratch off any original data. Use scientific notations to improve accuracy. 0.000789 does not equal to 0.0008, its 7.89×10^{-4} . Calculating this way might improve % error. Keep all the data and calculations neat. If we can't read them, obviously we cannot grade them. Before you leave the lab, TA must review and sign the data sheet.

Calculations: If you made an error in the calculation, points will be taken off for that part; however, we will go through your calculation and use the wrong data to see if rest of the calculations are correct. Points will be deducted if you identify the wrong unknown or if you have high percentage errors. All materials in this lab come from the lab manual. Although some concepts might not be covered in the lecture, you should still be able to perform if you have read the manual carefully. Seek help if you have trouble.

Cleanup*: Leave sufficient time at the end of laboratory period for cleaning up. Make sure you thoroughly clean all the equipment, glassware and also clean up your bench. If you do not comply with cleanup and other general rules pertaining to the lab, your grade for that lab will be lowered by 10%.

Stock Room: Chemistry Stock Room: BE 2.412 (DOWN STAIRS) You will need to replace broken items from the Chemistry stockroom , BE 2.412. You need to fill out a breakage form available with the TA with appropriate information. The items are charged to you as breakage at the end of the semester.

THIS WILL BE STRICTLY ENFORCED. YOU ARE ALSO REQUIRED TO PAY TO BURSARS OFFICE FOR ANY ITEMS IN YOUR LAB DRAWER THAT BECOME BROKEN OR LOST DURING THE SEMESTER

FAILURE TO PAY FOR BROKEN OR LOST DRAWER ITEMS WILL RESULT IN WITHHOLDING OF YOUR LAB GRADE

Field Trip Policies

Off-campus Instruction and Course Activities

Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-related activities. Information regarding these rules and regulations may be found at the website address http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm. Additional information is available from the office of the school dean. Below is a description of any travel and/or risk-related activity associated with this course.

Student Conduct & Discipline

The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, *A to Z Guide*, which is provided to all registered students each academic year.

The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the *Rules and Regulations, Board of Regents, The University of Texas System, Part I, Chapter VI, Section 3*, and in Title V, Rules on Student Services and Activities of the university's *Handbook of Operating Procedures*. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391).

A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.

Academic Integrity

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.

Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.

Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.

Email Use

The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.

Withdrawal from Class

The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, I cannot drop or

withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.

Student Grievance Procedures

Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's *Handbook of Operating Procedures*.

In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the dean will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.

Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.

Incomplete Grade Policy

As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of **F**.

Disability Services

The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.

The contact information for the Office of Disability Services is:
The University of Texas at Dallas, SU 22
PO Box 830688
Richardson, Texas 75083-0688
(972) 883-2098 (voice or TTY)

Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note-taking, or mobility assistance.

It is the student's responsibility to notify his or her professors of the need for such an accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.

Religious Holy Days

The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.

The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.

If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.

These descriptions and timelines are subject to change at the discretion of the Professor.