

Course Syllabus
Chemistry 115: Inorganic and Environmental Chemistry Laboratory
Spring 2008

Text: **Chemistry 115** Inorganic and Environmental Chemistry Laboratory

Location and Meeting Times: The labs will be in the Chemical and Forensic Sciences Building, SHSU Campus. Please refer to your schedule for your class location and time.

Course Description and Objectives

CHM 115 is the laboratory course that accompanies the chemistry course for the non-science major (CHM 135). The lab is designed to acquaint the student with the fundamental concepts of chemistry. Credit 1.

Course Requirements

Safety glasses or goggles are mandatory, and you must have your own personal copy of the lab manual. You may not share lab manuals with your lab partner, etc. You must wear shoes that enclose the whole foot and long pants to each lab. A TI 30Xa series calculator must be used on all exams.

Attendance and Grading

There are 17 laboratory exercises. To be consistent with University policy, a student may miss two laboratory exercises without penalty. If you miss two labs in a semester, you may not miss more labs without penalty. Makeup labs are not allowed.

A maximum of 150 points can be derived from lab participation and other class assignments. Each lab is worth 10 points. Five points of the 10 points will come from your quiz grades and five points will be earned by your participation in the lab activities. You are not allowed to take the missed quizzes. If you miss more than two labs, a zero (0) will be assigned for each additional day you are absent. If you are tardy to class and miss the quiz, you will receive a zero (0) for the quiz.

The laboratory is one of the places where a student begins to learn professional behavior; therefore, part of the student's grade comes from "housekeeping" skills. Poor management of laboratory materials includes such things as leaving glassware out, sloppiness around the work area, and other things that instructor feels is detrimental to the development of good laboratory skills. The above actions could result in lowered lab participation grades.

There will be two multiple-choice exams: a mid-term exam worth 50 points and a comprehensive final exam worth 100 points.

Final grades are determined by the CHM 115 Supervisor.

| Points | Grade |
|---------------|--------------|
| 270-300 | A |
| 240-269 | B |
| 210-239 | C |
| 180-209 | D |
| 0-179 | F |

Student Syllabus Guidelines

You may find online a more detailed description of the following policies. These guidelines will also provide you with a link to the specific university policy or procedure:

<http://www.shsu.edu/syllabus/>

Academic Dishonesty

Students are expected to maintain honesty and integrity in the academic experiences both in and

out of the classroom. *See Student Syllabus Guidelines.*

Classroom Rules of Conduct

Students are expected to assist in maintaining a classroom environment that is conducive to learning. Students are to treat faculty, teaching assistants, and students with respect. Students are to turn off all cell phones while in the classroom. Under no circumstances are cell phones or any electronic devices to be used or seen during times of examination. Students may tape record lectures provided they do not disturb other students in the process.

Rules of Conduct Specifically for CHM 115

You must wear safety glasses or goggles at all times in the laboratory. You must wear shoes that enclosed the whole foot and long pants to lab. You will not be allowed to participate in the lab without safety glasses and proper laboratory attire, and a zero will be assigned for that day's grade. You must follow all safety rules found in your laboratory manual and/or those stated by your lab TA. Any infractions of safety rules will result in expulsion from the laboratory with a zero for that day's grade.

Visitors in the Classroom

Due to safety concerns, visitors are not allowed in the laboratory during class time.

CHM 115 on Blackboard

For practice quizzes, supplemental material, and announcements, login at blackboard.shsu.edu. The username is **student** and the password is **student**.

Communication

Announcements will be made during regular class time, through email, and through postings made on Blackboard. It is your responsibility to check for these announcements.

CHM 115 Spring 2008 Schedule

This is a tentative schedule and may be changed at the discretion of the Supervisor.

| | Experiment |
|---------|--|
| Week 1 | Check into lab |
| Week 2 | Experiment 1: The Bunsen Burner - 2 |
| Week3 | Experiment 2: Measuring Length and Volume |
| Week 4 | Experiment 4: Measuring Density and Viscosity |
| Week 5 | Experiment 5: Separation of Mixtures |
| Week6 | Experiment 3: The Concept of the Mole |
| | Experiment 7: Paper Chromatography |
| Week7 | Experiment 14: Electrolytes and Nonelectrolytes |
| | Mid-term Exam |
| Week8 | Experiment 8: Extraction and Recrystallation |
| | Experiment 21: Flame Test for the Identification of Metals |
| Week9 | Experiment 10: Chemical Reactions |
| | Experiment 11: Acids and Bases |
| Week 10 | Experiment 24: Oxidation-Reduction Reaction |
| | Auxiliary Lab : Naming Compounds |
| Week 11 | Experiment 23: Gases |
| Week 12 | Experiment 17: Measuring the Hardness of Water |
| Week 13 | Experiment 18: Preparation of Cross-Linked Polymers |
| Week 14 | Experiment 9: Calorimetry #1 |
| Week 15 | Check out of lab |
| | Comprehensive Final Exam |