

Chemistry 11: Chemistry Laboratory for the Liberal Arts Spring 2010

Perequisite: None Number of Units: 1 Total Hours of Laboratory: 54
Advisory: NOTE: CHEM 10 taken with CHEM 11 meets GE requirements in science.

COURSE INSTRUCTOR: Cliff Gottlieb, Phone: 242-2323. e-mail cgottlieb@shastacollege.edu
web page <http://www.cliffschemsitry.com>

Office Hours: M W F 9 – 10 AM; W 12 – 1PM; M 1 – 2 PM and by appointment to meet your needs in 1412 or in the Science Learning Center, 1626. **Please come and visit**; lots of good stuff happens.

Catalog Course Description

Laboratory experiments and demonstrations, almost entirely non-mathematical, covering the basic concepts of the lecture course. The laboratory is designed to help students learn how to use various chemicals around us, safely and effectively. This course may include field trips. It is highly recommended that students take this laboratory course concurrently with the CHEM 10 lecture course. This course will satisfy the general education requirement for a laboratory science if taken with the lecture course.

Basic Materials for the Class: Chem 11 Lab Activities by Cliff Gottlieb. Lab Safety Goggles – Must meet ANSI Standard 287.1 1989 (can be purchased from Science Club on 1st day of lab; about \$6)

Classroom Management/Instructor Policies

There will be one lab per week for three hours. I will introduce each activity at the beginning of lab and students will perform the activity. At the end of lab, there will be a general discussion over the concepts and discoveries made. You must hand in the required material at the end of each lab period. This material will be graded on a 10 point scale. You are responsible for knowing and following the safety rules from the safety handouts and lecture and acting in a safe manner at all times. VIOLATION OF SAFETY RULES WILL LEAD TO EXPULSION FROM THE CLASS. If you are not sure, **ASK**. You will take a lab safety quiz. It is not part of your final grade. You must get 100% on the quiz or you will be removed from the class. You get 3 tries. Up to 50% of the total lab points may be deducted from your grade based on your behavior, participation, ability to follow directions, and acting in a safe and professional manner.

Methods of Evaluation/Grading Scale

There are 16 lab periods in the semester. You will be required to hand a written lab report for each lab activity. The lab reports must be written in blue or black ink or pencil. Each lab period is worth 10 points. The course grade is a percentage based on the earned points divided by 150 points. Up to 30% of the total lab points may be deducted from your grade based on your behavior, participation, ability to follow directions, and acting in a safe and professional manner.

The "curve" typically is: A = 90-100%; B = 80-89%; C = 70-79%; D = 60-69%; F <60%.

NO MAKE-UP LABS ARE PERMITTED, PERIOD!!! DON'T EVEN ASK!! If you don't get this, ask and you will have 100 points deducted from your final grade. Prior notification of an absence may allow you to make arrangements. Keep track of your own total points and grade. Do not ask me to figure out your grade. Each time you ask me about the number of points you have in the class, I will deduct 5 points from your course total. If you have any corrections or grade questions about any lab assignment, you must notify me within one calendar week after the assignment is returned to the class

ACADEMIC HONESTY: DON'T CHEAT! I will not tolerate cheating which I define to include the one who knowingly gives as well as the one who receives. It also includes "signing" the roll sheet for someone else and copying other's work. The penalty for the first offense is a 150 point deduction from your grade. If you have concerns regarding academic honesty, or any aspect of cheating, please see me. All work is to be completed individually unless explicitly stated otherwise.

Tentative Lab Schedule

Date	Lab	Date	Lab
1/26	Check in; safety; Measurement & Metric System	3/23	Copper Cycle
2/2	Exploration of a Bunsen Burner Flame	4/6	Soap
2/9	Flame Tests and Fireworks	4/13	Hand cream
2/16	How Much Does a Penny Weigh?	4/20	Esters
2/23	Distillation and Crystal Growing	4/27	Chlorophyll Chromatography
3/2	Ink Pen Chromatography	5/4	Caffeine Extraction and finish Crystals
3/9	Polymers	5/11	8 unknowns
3/16	Acids, Bases, and pH	5/18	Tie Dye

This schedule may be changed at the instructor's discretion.

SCIENCE LEARNING CENTER: Room 1626

The Science Learning Center offers a comfortable study environment and a variety of resources to assist students in any of the Science classes. There are computer programs and filmstrips that cover specific topics, old tests to look at, microscopes and slides to use and tutors to offer help.

Tutors can help you to initiate good study habits and procedures to maximize your study time. They can also help to clarify any confusing concepts. The tutoring is free and is done by students who have already successfully completed the course, often with the same instructor. When there is interest, we run study groups that are led by tutors.

OTHER RESOURCES AVAILABLE

XEROX MACHINE A copy machine is available in the computer area of the Learning Center for .10 per copy.

COFFEE CLUB Coffee is always brewing for Coffee Club Members. To join, there is a 4.50 per month charge or pay .50 by the cup. Occasionally, there is also Hot Chocolate for .15 per packet. Such a deal!

OFFICE SUPPLIES For your use, we have a paper cutter, stapler, scissors, and tape. Colored pencils are also available.

STUDYING IN THE SLC There are three different study environments available

GENERAL AREA This is a quiet area with plenty of room to spread out.

STUDY GROUP AREA We have a special area, separated from the rest of the Center by a partition, where groups like to study together.

SILENT AREA For those students who don't like distraction but want to make use of the Learning Center, this is a perfect spot. It is not quiet, but SILENT.

The SCIENCE LEARNING CENTER is a friendly, helpful, encouraging environment which can become your home away from home.

ADDING A CLASS

Students may add a full-term class through the fourth week of the term.* After the first two class meetings, approval of the instructor is required to add the class, which includes both the signature of the instructor and the first date of attendance. **IT IS THE STUDENT'S RESPONSIBILITY** to pick up the form from the Admissions and Records Office and take it to the instructor for approval. The student must then return the form to the Admissions and Records Office or Extended Education Center for processing before the add is finalized.

DROPPING A CLASS WITHOUT RECORD

Students may drop a class, and have no notation appear on their transcripts, through the fourth week* or 30% of the term for classes less than a semester in length. **IT IS THE STUDENT'S RESPONSIBILITY TO DROP CLASS (ES)**. The necessary forms are available from Admissions and Records, Extended Education Centers, or by mail. If a student intends to drop a class and stops attending but fails to file the necessary forms, a failing letter grade may be assigned by the instructor.

WITHDRAWING FROM A CLASS WITH A "W" GRADE

Students may withdraw from a class after the official "drop" date and up through the fourteenth week or 75% of the term for classes less than a semester in length. The notation "W's" will appear on the student's transcript and will not be used in calculations of grade point average. Excessive "W" shall, however, be used as factors in probation and dismissal procedures. **IT IS THE STUDENT'S RESPONSIBILITY TO OBTAIN FORMS AND SUBMIT THE NECESSARY PAPERWORK TO WITHDRAW FROM A CLASS**. Forms are available from Admissions and Records, Extended Education Centers, or by mail. Students who have not dropped or withdrawn from a class before the end of the fourteenth week or 75% of the term will be assigned a course grade.

ATTENDANCE

Students are expected to attend all class meetings. A student who fails to attend the first meeting of a course without notifying the instructor may be dropped from the class. In addition, an instructor may drop a student during the first 30% of the term for excessive absences. Nevertheless, **IT IS ALWAYS THE STUDENT'S RESPONSIBILITY TO OFFICIALLY DROP OR WITHDRAW** from the class. Students who fail to file the necessary forms, even though they stop attending class