

Chemistry and Society Lab  
CHE112L-012  
Spring 2007

*Instructor:* Dr. Bradley Sieve

Time: Wed 12:00-1:40

Place: SC 464

*Office:* SC 452, ext 6547

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*Phone:* ext 6547

Office Hours: TBA

Outside office hours I have an open door policy, meaning feel free to approach me in my office at anytime. Though if possible make appointments outside posted hours to insure availability.

Student Learning Outcomes:

- 1) Students will be able to apply lessons learned in lecture to practical chemistry of everyday life exhibited in the laboratory.
- 2) Students will understand that everything we use in daily life is chemistry.
- 3) Students will develop theories on how concepts presented in lab can be used to improve their daily lives.

**Co requisite: Che 112 lecture**

**If you withdraw from the lecture, you MUST also withdraw yourself from the lab**

Required supplies:

Laboratory Manual: "Chemical Investigations for Changing Times" Hill and Kolb, 11<sup>th</sup> edition

Safety Goggles with side shields

A **nonprogrammable** scientific calculator (programmable calculators will not be allowed to be used during quizzes and exams)

Grading Scale

Each Experiment is worth 50 pts.

$50 \times 11 = 550$  pts.

Each test is scaled to 100 pts.

$100 \times 2 = 200$  pts.

Total = 750 pts.

Final Score:

A	90-100%	675-750 pts.
B	80-89%	600-674 pts.
C	70-79%	525-599 pts.
D	60-69%	450-524 pts.
F	less than 59%	less than 449 pts.

At the end of the term the lowest score received for a lab will be removed giving the final 11 scored lab sessions. No make-ups will be allowed for the exams and absence will result in a zero for that score.

Preparation for class: Each week you must come to class having thoroughly read and understood the experiment that you will perform that day. To ensure that you are prepared, a pre-lab quiz worth 10 points will be given at the start of the period. This quiz is 10 of the 50 points that each lab report is worth, or 20% of each lab. **If you are late for lab or miss that lab you MAY NOT make-up the quiz under any circumstances!!!!**

Assignment of Laboratory Points: Each week you must come to class having thoroughly read and understood the experiment that you will perform. The quiz is 10 of the 50 points that each lab report is worth, or 20% of each lab. Laboratory technique and following of safety procedures will also account for 5 of the 50 points per lab. So that is 35 pts on data (presentation and correctness) and write-up, 10 on laboratory preparation exam, and 5 points on laboratory and safety techniques. If for whatever reason a pre-lab quiz is not given then the data and write-up will be worth the extra ten points also.

Data collection: Your report will also be graded on the accuracy with which you collect and record your data. This includes the appropriate units, eg. g for grams, °C for degrees Celsius, cm for centimeters etc., as well as the appropriate number of significant figures or decimal places. For instance, if you use a balance which gives a mass to two decimal places, you must record both decimal places and estimate one more place and not leave any out.

Calculations: You must show the work for any calculations done in the lab report the means of conducting calculations is more important than the actual answer when learning. Points will be deducted if only the answer appears. There is not much space available on the supplement sheets so feel free to attach additional pages as needed with them properly labeled. Also again be sure to include the proper units here as well.

Discussion questions: These should be answered in complete sentence form in legible writing. Answers should show understanding of the concepts of that lab. Most often short one or two word answers will not be correct. If any words such as why, how, explain etc.. appear in the question you must use complete sentences.

Summary Page: Along with filling in the data sheets and questions in the lab book students will also write a one page typed summary of the lab in their own words. Topics to include in this write-up include why did we do the lab, what did you learn, how does it apply to society in general and finally any parts of the lab they particularly liked or disliked. This page is to be stapled to the data sheets once they are handed in.

**All parts of the lab report are due at the START of the next lab period.** That typically means one week after the experiment was completed. Reports turned in beyond this are considered late. Late reports will be penalized two points per academic day. This is not days you are on campus but days class is held on campus.

Attendance: There are no make-up labs for any reason. If a lab experiment is missed a grade of zero will be assigned for that lab. Failure to attend 9 of the 12 laboratory sessions will result in a failure for the semester. One lab will be removed from the scoring though at the end of the term with the lowest score which may be a zero received for absence.

Additional Safety Rule: In addition to the safety rules that you read and sign, there are no shorts or open toed shoes allowed in lab for any reason. You may keep an old pair of pants in your lab drawer if you can't remember to wear pants during the warm weather. **If you arrive in shorts or sandals you will not be allowed in lab and will receive a zero for the experiment.**

Honor Code: Students are expected to conform to the Student Honor Code (<http://www.nku.edu/~deanstudents/HonorCode.htm> ). Academic dishonesty in this class will result in dismissal from the class and an F in the course.

Students with disabilities who require accommodations (academic adjustments, auxiliary aids or services) for this course must register with the Disability Services Office. Please contact the Disability Service Office immediately in the University Center, Suite 320 or call 859-572-6373 for more information. Verification of your disability is required in the Disability Services Office for you to receive reasonable academic accommodations. Visit the Disability Services website at [www.nku.edu/~disability/](http://www.nku.edu/~disability/).

This syllabus is subject to change though any change will be announced.

*No cell phones or pagers will ring or be used in the classroom. Also no use of tobacco products will be allowed in class.*