

College Chemistry (Chemistry 124/125)
Spring 2008
MWF 9:00-9:50 AM, 3140 Wescoe Hall

Lecture Instructor: Prof. David R. Benson, Room 5070A Malott Hall, 864-4090

Course E-mail address: **Chem124-125@ku.edu** (For questions about problem solving, etc.)

To meet with Prof. Benson: Request an appointment using the sign-up sheet on my office door, or send an E-mail to **drb@ku.edu** (in your email indicate the times you are available).

Head Teaching Assistant (TA): Amanda Glass

TA Office Hours: 11 am – noon, Monday and Wednesday

Required Text: Nivaldo J. Tro, Introductory Chemistry (*Second Edition*), Prentice Hall, 2006.

Lecture Course Website: resides on Blackboard, <http://courseware.ku.edu>

Course Content: Chemistry 124/125 provides an overview of the discipline of chemistry. It is designed for non-science majors, as well as for pre-nursing or allied-health professions students, certain education majors, and other students needing only one semester of chemistry. It is also a useful preparatory course for CHEM 184. Note that students who need more than one semester of chemistry must take CHEM 184/188. CHEM 124 is a 3-credit course and has no laboratory component associated with it. CHEM 125 is a 5-credit course that, in addition to lectures, includes one 3-hour laboratory session per week. Both CHEM 124 and CHEM 125 count as a Natural Science principle course in the physical sciences sub-category for the College of Liberal Arts & Sciences. *Please be aware that there is no separate lab course to take in another semester, so if you need the lab you should take CHEM 125.*

DISCUSSION SESSIONS Two voluntary, but highly recommended, discussion sessions are scheduled for each week:

*Tuesdays, 5-6 pm in Room 2005 Malott Hall

*Thursdays, 4-5:15 pm in Room 2001 Malott Hall

Dates and locations for these sessions may vary at the discretion of the head TA, in order to accommodate student schedules.

Prof. Benson will hold an evening review session one or two days prior to each exam.

GRADED HOMEWORK A selected group of Turn-In Homework problems (look in Homework folder on Blackboard) is due each Friday at 9:00 AM, excluding the first class on January 18th and Fridays following hour exams. If your homework is not received on time, you will receive a score of zero for that assignment. Problems should be neatly worked on an 8.5 X 11 sheet of paper (unfolded, and stapled if longer than one page). Your name (*and lab section for CHEM 125 students*) should be clearly printed in the upper right corner.

EXAMS AND QUIZZES Exams and quizzes will be given on the following dates.

Quiz 1: Friday, February 1 (in class)

Hour Exam 1: Wednesday, February 13, 8-10 pm (120 Budig)

Quiz 2: Friday, February 29 (in class)

Hour Exam 2: Wednesday, March 12, 8-10 pm (120 Budig)

Quiz 3: Friday, April 4 (in class)

Hour Exam 3: Wednesday, April 16, 8-10 pm (120 Budig)

Quiz 4: Friday, May 2 (in class)

Final Exam: Tuesday, May 13, 7:30-10 am

You must be present for all quizzes and exams. If you have a serious scheduling conflict with one of the above dates, contact Prof. Benson ASAP so that alternative arrangements can be made! Make-up quizzes and exams will not be given. An absence that is not excused will result in a quiz/exam score of zero.

- You must bring the following to each quiz and exam: calculator, eraser, and number 2 pencil. You should choose a calculator with scientific notation, but the calculator must not have wireless communication capabilities.
- The following must be put away during each quiz and exam: Walkman-type players, tape players, MP3 devices, cell phones, and PDAs (Palm-type digital devices). Display of any of these devices during an exam will be considered grounds for assigning a zero for that quiz or exam.
- Alarms during quizzes or exams: disruption of an exam through anonymous threats or fire alarms is a violation of law and academic misconduct. If an examination is disrupted by a fire alarm, each student will give their exam, answer sheets, and scratch paper to the instructor or a TA as they exit the building. The exams may be transported to an alternative test site. Students who transport their own examinations to the alternative test site may be assigned a zero for the exam.

GRADING The course will be graded based on the following breakdown:

	CHEM 124	CHEM 125
1. Midterm Exams*	300 pts	300 pts
2. Final Exam**	200 pts	200 pts
3. Quizzes	100 pts	100 pts
4. Homework	100 pts	100 pts
5. Total lab score (Chem 125 only)		<u>300 pts</u>
Total	700 pts	1000 pts

Final Chem 124/125 Letter Grades:

A = 90-100%
 B = 80-89%
 C = 70-79%
 D = 60-69%
 F = <60%

Note: Based on class performance, the final letter grade cutoffs may be lowered.

*Midterm exams will be held in 120 Budig

**At present, the final exam is scheduled to be held in 3140 Wescoe

LABORATORY (*CHEM 125 students only*)

Labs begin Monday, January 28, and are held in 2027 Malott (2nd floor, North/South corridor, East side of the building).

**Be sure you learn your lab section number and the name of your lab instructor.*

**Please bring proof of enrolment to your first lab. This is especially important if you have enrolled relatively late, or changed laboratory sections, as you may not yet be on our class rosters.*

The laboratory manual required for Chemistry 125 only, is entitled Laboratory Manual to Accompany Chemistry in Context: Applying Chemistry to Society (Fifth Edition), McGraw Hill, 2006. **APPROVED FULL-COVERAGE SAFETY GOGGLES ARE REQUIRED FOR ALL CHEMISTRY 125 LABS.** These Chemistry-Department-approved goggles are available at the KU Bookstores at the KU Memorial Union.

To enjoy the lab and learn as much as you can from the laboratory experience, make sure to read the lab experiment ahead of time, mentally picture what you will be doing, and think about the questions you will be answering at the end of each lab experiment (you will not be able to answer many of these until you have

completed the actual experiment). Lab periods will begin with a short quiz consisting of questions relating to the previous week's experiment, the current experiment, and occasionally, the lecture.

The Chemistry Department's Safety Regulations for Laboratory Courses is posted on the Web at http://linus.chem.ku.edu/genchemlab/safety_regs.htm You are required to know and follow the posted rules. Chemistry Department-approved **full-coverage goggles** must be worn at all times. If a student is found not wearing goggles at any time while laboratory work is being conducted anywhere in the room, this student will receive a warning or a grade penalty, and may be asked to leave the room. Laboratory students must wear **long pants**. It is not acceptable to wear shorts of any kind, Capri pants or intermediate-length pants of any kind, or skirts. Shoes must cover the entire foot. Open-toed shoes, open-heeled shoes, sandals, or shoes containing holes are not acceptable. (If a student's attire fails to meet these guidelines because of religious or cultural requirements, the student must contact the instructor in advance of the lab period.)

Further information about laboratory policies will be provided by your laboratory instructor (TA). On the first day of lab, January 28th, your TA will also give you a separate CHEM 125 lab syllabus.

STUDENTS WITH DISABILITIES Any student with a disability is invited to contact Prof. Benson with their concerns. All efforts will be made to provide proper accommodations.

ACADEMIC HONESTY High standards of personal and scientific integrity are expected of all students. The following will not be tolerated: cheating (which includes the appearance of cheating) while completing an exam, using unauthorized devices, falsifying laboratory data, and plagiarism. Outside of class, study and discussion of problems with others is encouraged; however, all graded assignments for Chem 124/125 lecture and laboratory must be your own work.

For more on this issue see: <http://www2.ku.edu/~clasus/policies/conduct.shtml>

RECORDING OF LECTURES Course materials prepared by the Chemistry 124/125 course instructors, together with the content of all lectures or other sessions presented by the instructors, are the property of the instructors. Video recording of lectures and review sessions is prohibited. The instructor will consider and may grant requests for permission for students to audio tape lectures and review sessions, on the condition that these audio tapes are used only as a study aid by the individual students making the recordings. Unless explicit permission is obtained from the instructor, recordings of lectures and review sessions may not be modified and must not be transferred or transmitted to any other person, whether or not that person is enrolled in the course.

Some Chemistry 124/125 Study Tips...

- Check the CHEM 124/125 Blackboard site daily for class information and announcements.
- Attend all lectures! Concentrate during the class periods and work to develop good note-taking and listening skills. If you miss a class, check to see if there were any special handouts, announcements or demonstrations, and ask a fellow student to let you review his/her notes. Check the Blackboard website for the course. It is essential to have a complete set of class notes to succeed.
- Read ahead in your textbook
- Do all assigned homework problems; if you have difficulty with them, contact the instructor, the head TA, or your laboratory TA.
- Studying with a group is a great way to complement individual study time, as it can provide you with alternative ideas for approaching problem solving.
- Please make use of instructor and TA office hours.