

**Chemistry 100 – Chemistry for Contemporary Living
Summer 2009**

I. General Information

<u>Instructor:</u>	Dr. Brian Lamp
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<u>Schedule:</u>	MTWTh 9:00 AM-10:40 PM MG 3000 (lecture) MG 1025 (lab)
<u>Textbook:</u>	Hill and Kolb, <i>Chemistry for Changing Times. 11th Edition</i> , Prentice Hall, 2007.
<u>Laboratory Manual:</u>	<i>Chemistry 100 Lab Manual</i> , 5 th Edition. Available Online.
<u>Other Materials:</u>	All students will be required to purchase departmental approved <i>safety goggles</i> for use in the laboratory. It is also important that all students have a <i>hand-held scientific calculator</i> for use on homework problems, labs, and exams. It will be assumed that you have a calculator for all quizzes and exams. The instructor will not loan calculators to students who have none.
<u>Office Hours:</u>	Office hours are posted outside Dr. Lamp's office and on his website. If you are unable to meet during these hours when in need of help, please arrange a time IN ADVANCE.
<u>Course Objectives:</u>	<ul style="list-style-type: none">• Introduction of the concepts, terminology and practice of modern chemistry.• Increase awareness of the impact of chemistry on society.• Exploration, analysis, and critical evaluation of issues related to the environment, energy, and applications of chemistry in society.• Improved skills in the communication of scientific and technical concepts.

II. Lecture

<u>Course Coverage:</u>	The lecture portion of the course will cover several major topics in chemistry. Assigned readings from the text and problems will be given to parallel the main topics. Our textbook will serve as a guide for our discussions and as a reference for key concepts. Particular emphasis will be placed on putting chemical concepts into a "real world" context. The goal is to have the "lecture" portion of the course be as discussion-driven as possible.
<u>Lecture:</u>	The lecture portion of the course will explore and elaborate upon topics presented in the reading. Since the lectures will most certainly contain additional information not present in the reading, attendance is critical. <i>As a result, lecture attendance will play a role in borderline grade assignments.</i>
<u>Exams:</u>	Three exams will be given. Tentative exam dates are June 17, July 7 and July 20. A comprehensive final exam will be given Thursday, July 23.

Homework: Regular homework assignments will be given and graded so that the total contribution to the final grade is a maximum of 125 points.

- Homework has a *significant* impact on your success in the course, not only in terms of its contribution to the total points in the course, but also in terms of preparation for quizzes and exams. Adequate time and consideration should be given to these assignments.
- *Not all assignments will be graded.*
- Late assignments will not be accepted. Due dates will be announced in advance and will be strictly enforced.
- Reading and homework assignments will be announced at the beginning of class. *The instructor assumes no responsibility for communicating the assignment again for those who are late or miss class.*
- *Failure to turn in homework assignments will have a bearing on the consideration of borderline grades at the end of the semester.*

Quizzes: A short in-class quiz will be given during the last 20 minutes of class on the days noted on the class calendar on page 4 of the syllabus. These quizzes will consist of problems related to the material covered since the last quiz. The problems will be written to resemble those that could be expected on an exam. Missed quizzes cannot be made up.

Make-up Exams: No make-up exams or quizzes will be given. If you cannot attend a scheduled exam for a ***valid, instructor-approved reason***, notify the instructor IN ADVANCE and an arrangement will be made. No credit will be given for missed exams or quizzes without prior instructor approval.

Academic Integrity: Students are expected to abide by the Truman State University Student Conduct Code and complete their coursework, including exams and laboratories using their original words and ideas and properly cite the words and ideas of others. Students caught committing an act of academic misconduct will be subject to the full range of penalties, including failing the course. In every case, the Dean of Student Affairs office and the Vice President for Academic Affairs will be notified.

Cell Phones/Pagers: Unless you are an emergency responder, all cell phones and pagers must be turned off and stored while in lecture. Failure to do so will result in dismissal from the class session (this includes exams). This will minimize disruption during class and help to maintain Dr. Lamp's good humor!

II. Laboratory

Laboratory: Attendance is required for all lab sessions. Labs missed will not be made up. To achieve a grade of C or better in the class, you must satisfactorily complete 8 of the 9 lab experiments. Completion of less than 7 of the experiments will result in a grade of F.

Lab Grading: Lab performance has a major bearing on your overall course grade. The areas listed below contribute to your lab grade.

- A. Attendance/Preparation: Along with lab attendance, preparation, understanding of procedures, safety practices, independence, and cleanliness will be considered in assigning these scores.
- B. Lab Assignments: Each experiment is accompanied by a lab data sheet and questions that encourage reflection about the experiment. These assignments will be completed by groups of 2 to 4 students and will be due the following lab period. Additional lab assignments and quizzes may also be given. These may consist of short library or Internet assignments or instructor assigned questions.

YOU MUST SUCCESSFULLY PASS THE LABORATORY IN ORDER TO PASS THE CLASS!

IV. Grading

<u>Grade point breakdown:</u>	<u>Source</u>	<u>Total Points</u>
	Exams (3)	300 pts. maximum
	Quizzes	125 pts. maximum
	Homework	125 pts. maximum
	Final Exam	200 pts. maximum
	Lab Attendance	50 pts.
	Lab Assignments	100 pts. maximum
	<u>Special Project(s)</u>	<u>100 pts. maximum</u>
	Total points	1000 pts. maximum

Grading Scale: Awarding of final class grades will be based on the scale below. Percentages will be computed on the basis of total possible points for the semester.

<u>Grade</u>	<u>Percentage</u>
A	90.0-100
B	80.0-89.9
C	70.0-79.9
D	60.0-69.9
F	<60.0

The instructor reserves the right to lower the grading scale, but it will never be raised.

Late Hand-ins: A penalty of 20% per **calendar day** will be assessed for turning in assignments later than the assigned date. After 5 days, a grade of zero will be awarded.

V. Other Information

- Please trim the edges of any spiral notebook paper prior to submission.
- All assignments in lab and lecture *must be written legibly and in a well-organized fashion*. If an answer or work cannot easily be interpreted, no credit will be given.
- All mathematical work used when solving a problem, whether on homework or exams, *must be shown in order to receive credit for the problem*. Clearly mark your answers.
- Homework and exam keys will be posted on the bulletin board outside Dr. Lamp's office. Exam keys, assignments, announcements and various other information can be found on Dr. Lamp's CHEM 100 web page at www2.truman.edu/~blamp.

**"I'm a great believer in luck, and I find the harder I work the more I have of it."
-Thomas Jefferson**

VI. Class Calendar

NOTE: the items in **bold** identify Exam and Quiz dates. The items that are *italicized and underlined* correspond to lab activities.

June

Monday	Tuesday	Wednesday	Thursday	Friday
1 Why are we here?	2	3	4 Quiz	5
8	9 <u>States of Matter</u>	10 Quiz	11 <u>Atomic Spectra</u>	12
15	16 <u>"Hemoglobin" Analysis</u>	17 Exam	18	19
22 Quiz	23 <u>Exploring Reactions</u>	24	25 <u>Messing with Copper</u>	26

July

Monday	Tuesday	Wednesday	Thursday	Friday
29	30 Quiz <u>Prof's Choice</u>	1	2 <u>Chromatography</u>	3
6	7 Exam	8	9 <u>Citric Acid</u>	10
13	14 <u>Biodiesel/Soap Synthesis</u>	15 Quiz	16 <u>Demo Prep</u>	17
20 Exam	21 <u>Demo</u>	22	23 Final Exam No Lab	24