

CHEM 1151 - SURVEY OF CHEMISTRY I

Fall 2007; MW 9:00 - 11:15; TLC 3108

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Required Material: *General, Organic and Biological Chemistry*, 2nd Edition, by Timberlake -
Workshop book will be provided

Optional Material: *Study Guide* by Timberlake

Course Description: This is the first course in a two-semester sequence covering the elementary principles of general, organic and biochemistry for allied health professions, middle grades math science teachers and non-science majors. This course includes general chemistry as well as an introduction to organic chemistry, with an emphasis on human physiology. The chapters to be covered are chapter 1 through chapter 13.

Course Structure: The class meets for 2 hours and 15 minutes 2 days per week and workshops will meet an additional 2 hours per week. The course will be a combination of lecture, ChemActivity group work, workshop, and laboratory activities.

ChemActivities:

- This course will be partially taught using the Process Oriented Guided Inquiry Learning (POGIL).
- Some of every class time will be spent working in self-managed groups of three or four. I will assign group membership and reshuffle groups on a regular basis.
- During this time I will walk around class, observe, ask and answer questions. Also, during this time, group work may be interrupted for group reports, or brief whole-class discussions. You must pause group work for these discussions.
- The POGIL material is designed to use leading questions to guide you towards the formulation of your own knowledge.
- I will serve as a coach to help you in learning the material.
- In many instances, I may not answer a question directly but may ask you a question that will lead you to discovering the answer for yourself.
- It is highly suggested that you use a binder to store and organize all classroom-related materials. A suggested organization might be to group each day's work as follows: lecture notes, worked out ChemActivity exercises, workshop work book, and worked out problems from Timberlake.

Grading:

- **Quizzes:** There will be a five minute quiz once per week at the beginning of the class period. If you are late, you will not get extra time for the quiz. The two lowest quiz scores will be dropped. You will not be excused from any quizzes; there are no make-up quizzes. A quiz missed for any reason will count as one of your "dropped" quizzes. The average of the remaining quizzes will count 12% of your final grade. Studying for the quizzes entails:
 - Review lecture notes
 - Completing and reviewing the ChemActivities,
 - doing the assigned problems in Timberlake and
 - reading the selected sections in Timberlake.

- **Exams:** There will be four exams given on September 12th, October 10th, November 7th and December 3rd. You will be given one hour and 15 minutes to complete the exam and no make-up exams will be given. Your lowest test score may be replaced by the final exam grade (if it is higher). An exam missed for any reason will count as your “lowest” exam and replaced with the final exam grade. Each exam will specifically test class material covered since the previous exam. However, since the nature of chemistry is cumulative I will assume that you have mastered past material. Note: All exam, quiz and lab activity grades will be based on your ability to DEMONSTRATE full understanding of the material (with full credit given only if you SHOW ALL YOUR WORK, not just for obtaining the correct answer).
- **Final Exam:** The final exam will be a national ACS exam. It is a comprehensive exam over the entire course. The exam will be given on Monday, December 10th from 11-1.
- **Workshop:** There is a mandatory “workshops” CHEM 1000. In workshops, the large class is broken down into smaller groups that meet once a week for two hours outside of class to discuss chemistry problems and improve your understanding of the material. Your workshop average will contribute 12% to your overall course average.

Why should you want to commit to two more hours spent on chemistry each week in addition to your time in lecture and lab? Here are some good reasons.

- To be successful in chemistry, you should plan, on average, to spend at least six hours a week outside of class/lab meetings studying chemistry. The workshop can be two of them.
- Working with other students and with a leader can be more productive than doing all your studying alone. In the structured workshop setting other students can help you see something you missed and as you explain an idea to someone else it becomes clear in your own mind.
- **Laboratory** - All of the results from these activities will be submitted to the instructor at the end of the current session (unless otherwise stated), late reports will not be accepted. There will be no makeup sessions. Attendance to the class meetings is required to receive credit. Wearing safety goggles is required while performing experiments (more details about safety in the lab will be given later), not wearing them will result in being expelled from the room as well as receiving a zero for the experiment, without any appeal. Your lowest lab report grades will be dropped. The average of the remaining laboratory activities will count 12% of your final grade.
- **Homework**- problems from the book will be assigned on a regular basis. Students are permitted and encouraged to work together. Homework will not be collected nor graded.
- **Academic Honesty:**
 - All exams and quizzes will be closed book/closed notes, and will be taken individually (unless otherwise informed by the instructor).
 - During exams you may not use your own paper or other materials except your pen or pencil and calculator. Any cell phones or other electronic devices (not including a non-programmable calculator) seen during an exam will result in an automatic F for the exam.
 - Academic dishonesty will not be tolerated. Academic dishonesty includes unauthorized use of any materials, notes, sources of information, or study aids or tools during a quiz or exam and copying or plagiarizing a laboratory report. It also includes the unauthorized assistance of any person other than the course instructor during a quiz or exam, the unauthorized viewing of another person’s work during a quiz or exam, or the unauthorized securing of all or part of any quiz or exam before submission by the instructor.

- Violation of academic honesty will generate disciplinary action that may include a course grade of “F”. A student who is suspected of cheating must confess to all wrong doing at the first opportunity (when first confronted), or risk a harsher penalty. If you believe that there are situations in the course that foster academic dishonesty, please bring them to my attention. Likewise, if you have observed cheating, bring the details to my attention as soon as practical. Insofar as it is possible, your anonymity will be protected.
- **Calculation of Overall Average:**
Quizzes 12%, workshops 12%, laboratory activities 12%, exams 54%, and final exam 10%
- **Grading Scale:** A: 100-90; B: 89-80; C: 79-70; D 69-60; F: 59-0%
- **Note:** Last day to withdraw with a “W” is October 8th.
- **Study Skills:** The best way to make sure that you have thoroughly understood the material covered in class is to read the text, work through the appropriate problems, and participate in workshop, on a REGULAR BASIS. Keep track of the end of chapter problems that give you the most difficulty, and try similar problems for additional practice and review. Keep up with the class, and ask questions frequently in workshop and during the office hours.

Additional Policies:

- Students are expected to attend all classes. A large part of the learning process in this course is based on the in-class activities. If you are not here you will not have a chance to participate in those activities. There will be no makeup quizzes or laboratory activities – if you miss a quiz or laboratory it will simply be one that is dropped (only two quizzes and one laboratory activity will be dropped). If you miss a class it is your responsibility to get class notes from another student in the class.
- If you must bring your cell phone to class, make sure the ringer is **OFF** during class. Any cells phones seen during an exam will result in an automatic F for the exam.
- The official communication method between the instructor and students will be through campus e-mail (myUWG email account).
- Some of the course materials including the syllabus, grades, etc. are available through WebCT Vista.
- Qualified students with disabilities should contact me as soon as possible to ensure that appropriate accommodations can be made.
 - You are expected to behave professionally in this course, which means considering the effect that your behavior will have on other people involved in the course.
 - Turn off pagers and cellular phones, and do not use them in class.
 - You will not be allowed to eat or drink in the classroom/laboratory.
 - In addition to regularly scheduled lecture and laboratory sessions, you must attend a workshop that meets once a week (on Mondays or Tuesdays) outside of class.
 - No make up quizzes or exams will be given. In case of an illness or a dire emergency, the instructor must be contacted prior to the examination, via phone or email.
 - You should be prepared to spend at least **6-10 hours per week** studying chemistry outside the classroom.
 - The best way to make sure that you have thoroughly understood the material covered in class is to **READ THE TEXTBOOK** and work through the appropriate problems (solved exercises in the textbook, problems solved/assigned in class, problems included in workshop and workbook) on a regular basis.
 - Once lab has started (Once any student has started handling chemicals, not necessarily you), safety glasses are required to be worn at all times. If you do not wear your safety glasses (even for a couple of minutes, even if you are not handling chemicals but others are) in order to protect your eyes, you

will be expelled from the lab without any appeal and you will receive a grade of zero for the experiment. I will strictly enforce this policy all year long.

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