

Temple University, Ambler Campus
Department of Chemistry
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Introduction to Chemistry
(Chemistry CO62)
Spring 2007
Lecture: 8:40 - 9:30am on M,W,F in 101 Dixon
Telephone: 215-204-7147

Keep this syllabus; it contains important information which you will need to know in order to succeed in this course.

Chemistry CO62 is the second semester of Introduction to Chemistry lecture. This broad survey course in chemistry is designed primarily for non-science majors and those planning careers in allied health or horticulture. Introduction to Chemistry is a core curriculum course; however, it is not accepted by medical or dental schools, and cannot normally be used as a prerequisite for Chemistry 121 (Organic Chemistry). If you expect to take Science and Technology courses in Chemistry (100 level or above), you should take the 71-74 sequence (General Chemistry) rather than this course. Any student who has a need for accommodation based upon the impact of a disability should contact his or her course instructor privately to discuss their specific situation as soon as possible; also it is advisable to contact Disability Resources and Services at 215-204-1280.

LECTURE TEXT AND BLACKBOARD:

1. Introduction to General, Organic and Biochemistry (8E) by Bettelheim, Brown and March published by Thompson, Brooks/Cole. This book and the Student Solutions Manual are available as a package at the campus bookstore in SAC. There is also a very helpful CD-ROM that is available for this book.
2. Students should check Blackboard and their Temple e-mail accounts each week for possible announcements and possible supplementary materials. All of the handouts will be available under the Course Documents Section of Blackboard. If a student misses a lecture or recitation where lecture or recitation materials for subsequent meeting(s) were passed out, the student will need to get these materials from Blackboard.

GRADING: Grades will be based on a possible total of 1000 points. The grading components are as follows:

Recitation exercises	100 points
Quizzes	100 points
Midterm I Exam (Ch. 1-4)	200 points
Midterm II Exam (Ch. 5-9)	200 points
Cumulative Final Exam (Ch. 16-32)	400 points

Total	1000 points

GENERAL COURSE INFORMATION: First class: Wednesday, January 17, 2007. Last class: Monday, April 30, 2007. Final exam Monday, May 7 8:30 to 10:30 am.
Last day to drop (tuition refund available): Monday, January 29, 2007.
Last day to withdraw (no refund): Monday, March 26, 2007. Students who have previously withdrawn from the same course, or who have already withdrawn from 5 courses since September 2003 may not withdraw. Drops and withdrawals are handled by the student's college office. The spring semester ends on Wednesday, May 9, 2007.

ABSENCES: Excessive absences from any part of Chemistry 61 lecture and or recitation can result in a student receiving an F as a final grade. Attendance at all lectures and recitations is required. It

is the responsibility of the student to make sure that his/her absence is recorded as excused if such is the case.

LECTURE AND RECITATION PREPARATION: Students should expect to spend an average of 28 hours each week outside of lab, lecture, or recitation preparing for Chem 62 lecture and recitation. This preparation includes but is not limited to preparing for lecture by reading chapters before they are covered in lecture, and preparing for or doing homework assignments, recitation assignments, quizzes, midterms and final examinations. It is very important that students do not fall behind. It will be very difficult to catch up if a student falls behind. It is also necessary for students to constantly review material from previous chapters in order to prepare for the current material and the cumulative final exam.

WITHDRAWALS: Students may withdraw from the course with a grade of W at any time up to and including Monday, March 26, 2007. No withdrawal is possible after that date. A student who withdraws from Chemistry 62 may or may not withdraw from Chemistry 64. Students who have previously withdrawn from the same course, or who have already withdrawn from 5 courses since September 2003 may not withdraw. Drops and withdrawals are handled by the student's college office. The full university policy on withdrawals can be found at <http://policies.temple.edu> under section 02.10.14.

INCOMPLETES: The grade of I (Incomplete) will only be considered in cases of end of semester emergency situations where at least 60% of the term's work has already been completed with a passing grade, and only for reasons beyond the student's control. To receive a grade of I, the student must first sign a written agreement with the instructor involved and the Chemistry department, specifying the manner by which the missed work will be completed. Notify Dr. Seibles if you believe you have a valid reason to obtain a grade of I in Chemistry 62. The full university policy on incompletes can be found at <http://policies.temple.edu> under section 02.10.13.

ELECTRONIC CALCULATORS: Although the types of calculations employed in Chemistry 62 are generally quite simple, you may find that a pocket calculator (properly operated) will improve your accuracy. If you wish to invest in a calculator, it is suggested that you select a model which can deal with logarithms and scientific notation. Be certain that if you use a calculator, it is kept in good condition, especially for quizzes and examinations. Calculator failure will not be accepted as an excuse for a poor quiz or examination. The sharing of calculators, use of information storage devices, cell phones, pagers and other communication devices during quizzes or examinations is prohibited. Students may not use programmable calculators or calculators that are in their cell phones. The instructor reserves the right to design quizzes and examinations whereby the use of calculators is prohibited using problems that can be solved by estimation.

OFFICE HOURS: Office hours by appointment.

MID TERM REPORTS: The University requires a midterm report for this course for each student. These reports will be used to advise and counsel students on seeking appropriate assistance in their studies.

ACADEMIC HONESTY: The contents of this section are from Temple University's 2005-2006 Undergraduate Bulletin in the Students Responsibilities part of Responsibilities section. The web address is http://www.temple.edu/bulletin/Responsibilities_rights/responsibilities/responsibilities.shtm#honesty.

Temple University believes strongly in academic honesty and integrity. Plagiarism and academic cheating are, therefore, prohibited. Essential to intellectual growth is the development of independent thought and a respect for the thoughts of others. The prohibition against plagiarism and cheating is intended to foster this independence and respect. Plagiarism is the unacknowledged use of another person's labor, another person's ideas, another person's words, another person's assistance. Normally, all work done for courses -- papers, examinations, homework exercises, laboratory reports, oral presentations -- is expected to be the individual effort of the student presenting the work. Any assistance must be reported to the instructor. If the work has entailed consulting other resources -- journals, books, or other media --, these resources must be cited in a manner appropriate to the course. It is the instructor's responsibility to indicate the appropriate manner of citation. Everything used from other sources -- suggestions for organization of ideas, ideas themselves, or actual language -- must be cited. Failure to cite borrowed material constitutes plagiarism. Undocumented use of materials from the World Wide Web is plagiarism. Academic cheating is, generally, the thwarting or breaking of the general rules of academic work or the specific rules of the individual courses. It includes falsifying data; submitting, without the instructor's approval, work in one course which was done for another; helping others to plagiarize or cheat from one's own or another's work; or actually doing the work of another person. The penalty for academic dishonesty can vary from receiving a reprimand and a failing grade for a particular assignment, to a failing grade in the course, to suspension or expulsion from the University. The penalty varies with the nature of the offense, the individual instructor, the department, and the school or college. Students who believe that they have been unfairly accused may appeal through the School or College's academic grievance procedure. See Grievances under Students Rights in this section.

RECITATION: Recitation is a time when you can ask questions and practice problem solving. Specific problems from the book will be assigned and the solutions will be handed in at recitation for instructor review. Active learning will also be incorporated into recitation sessions. Attendance is expected and required. Full participation in the problem solving exercises is strongly associated with success.

LECTURE GRADING: A student's lecture grade will be based upon the student's overall performance in recitation exercises (10%), lecture quizzes (10%), lecture midterm I exam (20%), lecture midterm II exam (20%), and a cumulative final exam (40%). These quizzes and examinations will be taken in the lecture room.

RECITATION EXERCISES (RE) (10%): There will be a total of fifteen recitation exercises (RE's). Each of these fifteen assignments will roughly correspond to material from each chapter in your Chem 62 lecture text. Each RE will consist of from one to four problems from your text or other sources. RE's are due on Mondays during lecture i.e. prior to Monday recitations. RE's will be discussed during recitation Accordingly you should make a copy of your recitation exercise for notetaking during recitations. The score of the lowest recitation exercise will be dropped. If one assignment is missed, a score of zero will be assigned for the missed assignment and this missed problem set will be dropped instead of the lowest problem set. Only one assignment is dropped. If a student misses two or more assignments, scores of zero will be assigned for all missed problem sets. Only handwritten original recitation exercises will be accepted. Typed, photocopied, or computer generated copies of recitation exercises will not be accepted. The last day and time that a recitation exercise will be accepted is the next lecture date after the due date in the syllabus and the deadline will be at 8:40 am that day.

PROBLEM SETS (0%): Problem sets will be posted on blackboard for each chapter listed in the syllabus. The problems in these problem sets are suggested problems and are different from RE problems. Problem sets will not be collected. The purpose of the problem sets is to prepare you for quizzes, midterms and the final. You are strongly encouraged to work as many problems as you can.

LECTURE QUIZZES (10%): There will be a total of five lecture quizzes that will be given in lecture. Each of these five lecture quizzes will correspond to material from approximately 1 to 2 chapters in your Chem 62 lecture text. The score of the lowest lecture quiz will be dropped. If one lecture quiz is missed, a score of zero will be assigned for the missed lecture quiz and this missed lecture quiz will be dropped instead of the lowest lecture quiz. Only one lecture quiz is dropped. If a student misses two or more lecture quizzes, scores of zero will be assigned for all missed lecture quizzes. The lecture quiz cannot be given to a student that comes in to class after another student has already finished and left the quiz room. Makeup lecture quizzes are not given. To allow for flexibility in timing of lecture quizzes and to help students prepare for lecture quizzes, the lecture quiz schedule in your syllabus is tentative. However the lecture quizzes will be announced one class period in advance. Copying, talking and other forms of communication between students during a lecture quiz are prohibited. The sharing of calculators, use of information storage devices, cell phones, pagers and other communication devices during quizzes is prohibited. Students may not use programmable calculators or calculators that are in their cell phones. The instructor reserves the right to design quizzes and examinations whereby the use of calculators is prohibited but the problems can be solved by estimation.

MIDTERM EXAMINATIONS I and II (20% EACH) AND FINAL EXAMINATION (40%): Midterm examination I is scheduled for , and midterm examination II is scheduled for The final exam will be scheduled by the registrar. There are no make-up exams A midterm or final examination cannot be given to a student that comes in to class after another student has already finished and left the exam room. Copying, talking and other forms of communication between students during a midterm or final examination are prohibited. The sharing of calculators, use of information storage devices, cell phones, pagers and other communication devices during a midterm or final examination is prohibited. Students may not use programmable calculators or calculators that are in their cell phones. The instructor reserves the right to design midterm and final examinations whereby the use of calculators is prohibited but the problems can be solved by estimation. A student can only take a midterm or final examination once.

TENATIVE CHEM 62 LECTURE SCHEDULE

Note-- Classes will not meet on 3/5, 3/7 and 3/9

<u>Date</u>	<u>Topic/Assignment</u>	<u>Text Chapter</u>
Jan 17 W	Amines Part 1	16
19 F	Amines Part 2	16
22 M	Aldehydes, Recitation Exercise (RE) 1 DUE	17
24 W	Ketones	17
26 F	Quiz 1	16 , 17 (Amines, aldehydes, ketones)
29 M	Keto-enol tautomerism, RE 2 DUE	17
31 W	Carboxylic Acids Part 1	18
Feb 2 F	Carboxylic Acids Part 2	18
5 M	Carboxylic Acid derivatives Part 1, RE 3 DUE	19

7 W	Carboxylic Acid derivatives Part 2	19
9 F	Quiz 2	18, 19 (Carboxylic acid and derivatives)
12 M	Carbohydrates Part 1, RE 4 DUE	20
14 W	Carbohydrates Part 2	20
16 F	Midterm 1	16, 17, 18, 19
19 M	Carbohydrates Part 3, RE 5 DUE	20
21 W	Lipids Part 1	21
23 F	Lipids Part 2	21
26 M	Proteins Part 1, RE 6 DUE	22
28 W	Proteins Part 2	22
Mar 2 F	Quiz 3	20, 21 (Carbohydrates, lipids)
Mar 4 to Mar 11	Spring Recess	
Mar 12 M	Proteins Part 3, RE 7 DUE	22
14 W	Enzymes Part 1	23
16 F	Enzymes Part 2	23
19 M	Chemical Communication Part 1, RE 8 DUE	24
21 W	Chemical Communication Part 2	24
23 F	Quiz 4	22, 23 (Proteins, enzymes)
26 M	Nucleic Acids Part 1, RE 9 DUE	25
28 W	Nucleic Acids Part 2	25
30 F	Midterm 2	20, 21, 22, 23, 24, 25
Apr 2 M	Protein Synthesis, RE 10 DUE	26
4 W	Gene Expression	26
6 F	Bioenergetics Part 1	27
9 M	Bioenergetics Part 2, RE 11 DUE	27
11 W	Catabolism Part 1	28
13 F	Quiz 5	26, 27 (Protein synthesis, gene expression, bioenergetics)
16 M	Catabolism Part 2, RE 12 DUE	28
18 W	Anabolism	29
20 F	Immunochemistry Part 1	31
23 M	Immunochemistry Part 2, RE 13 DUE	31
25 W	Blood Chemistry Part 1	32
27 F	Blood Chemistry Part 2	32
30 M	Final Review, RE 14 DUE	Cumulative
May 7 M	Final Exam, RE 15 DUE	Cumulative