

Temple University  
Department of Chemistry  
Dr. James Bloxton  
Office: 240 Beury Hall  
E-mail: jdb84@temple.edu  
Tel: 1-215-204-7129

Introduction to Chemistry  
(Chemistry CO62)  
Second Summer Session 2006  
Lecture: 8:40 - 10:30 on M-Th  
in 409 Barton Hall Classrooms

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 for them to contact Disability Resources and Services at 215-204-1280.

**LECTURE TEXT AND BLACKBOARD:** 1. Introduction to General, Organic and Biochemistry (7E) 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. Homework assignments and recommended homework problems will be posted on Blackboard under Announcements. 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 1000 points for Chemistry 62. The grade breakdowns are given below:

CHEMISTRY 62

Homework	100 points
Quizzes	100 points
Midterm I Exam (Ch. 16-20)	200 points
Midterm II Exam (Ch. 21-25)	200 points
Cumulative Final Exam (Ch. 16-31)	400 points
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Total	1000 points

**GENERAL COURSE INFORMATION:** First class: Wednesday, July 5, 2006.

Last day to drop (tuition refund available): Tuesday, July 18, 2006.

Last day to withdraw (no refund): Tuesday, August 1, 2006. 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 first summer session ends on Tuesday, August 15, 2006.

**ABSENCES:** Excessive absences from any part of Chemistry 62 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 30 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 Tuesday, August 1, 2006. 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 first must 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. Bloxton 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 but the problems can be solved by estimation.

**OFFICE HOURS:** I will generally be available from 8:40 – 4:00 on each day M, T, W, Th that Chem 62 lecture is being held. I will usually be in either lecture or recitation in 409 Barton Hall Classrooms or in Chem 64 laboratory in 111 Beury Hall or in my office in 240 Beury Hall. I can also be reached by e-mail at [jdb84@temple.edu](mailto:jdb84@temple.edu) or by telephone at 1-215-204-7129.

**MID TERM REPORTS:** The University requires, for submission to them, a mid term report for this course for each student. These reports will be used to advise and council 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](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 homework assignments (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.

**HOMEWORK (10%):** There will be a total of sixteen homework assignments that will be posted on Blackboard under Announcements. Each of these sixteen homework assignments will correspond to material from each chapter in your Chem 62 lecture text. The score of the lowest homework assignment will be dropped. If one homework assignment is missed, a score of zero will be assigned for the missed homework assignment and this missed homework assignment will be dropped instead of the lowest homework assignment. Only one homework assignment is dropped. If a student misses two or more homework assignments, scores of zero will be assigned for all missed homework assignments. Only handwritten original homework assignment assignments will be accepted. Typed, photocopied, or computer generated copies of homework assignments will not be accepted. The last day and time that a homework assignment will be accepted is the day that the first lecture exam is given on the material in that homework assignment and the deadline will be at 8:40 am of the day of the first lecture exam for that material.

**LECTURE QUIZZES (10%):** There will be a total of eleven lecture quizzes that will be given in lecture. Each of these eleven lecture quizzes will correspond to material from approximately 1 chapter or 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, a fixed lecture quiz schedule has not been established. 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 Thursday, 7/20/06, and Midterm examination II is scheduled for Tuesday 8/1/06. The Final examination is scheduled for Tuesday 8/15/06. If a student has an excusable reason for missing a midterm or final examination a makeup midterm or final examination can be given. If, however, a student misses taking a midterm or final exam, during the exam times when it is given, then a grade of zero will be given if a student has no excused absence for missing a midterm or final exam. For an absence to be considered excusable, the student must provide the instructor with a written documented note, explaining the reason for the absence; whereupon, the instructor will notify the student whether or not the absence is considered excusable. 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:****MEETING DAY   CHAPTER OR EXAM**

1. W 7/5                      Syllabus; Chapter 16: Amines
2. Th 7/6                     Chapter 16: Amines; Chapter 17: Aldehydes and Ketones
3. M 7/10                    Chapter 18: Carboxylic Acids, Anhydrides, Esters, and Amides
4. T 7/11                    Chapter 18: Carboxylic Acids, Anhydrides, Esters, and Amides
5. W 7/12                    Chapter 19: Carbohydrates
6. Th 7/13                    Chapter 20: Lipids
7. M 7/17                    Chapter 20: Lipids; Chapter 21: Proteins
8. T 7/18                    Chapter 21: Proteins
9. W 7/19                    Chapter 22: Enzymes
10. Th 7/20                    Midterm Examination I on Chapters 16 – 20 and Lecture on Chapter 22: Enzymes
11. M 7/24                    Chapter 23: Chemical Communications: Neurotransmitters and Hormones
12. T 7/25                    Chapter 24: Nucleotides, Nucleic Acids, and Heredity
13. W 7/26                    Chapter 25: Gene Expression and Protein Synthesis
14. Th 7/27                    Chapter 26: Bioenergetics: How the Body Converts Food to Energy
15. M 7/31                    Chapter 26: Bioenergetics: How the Body Converts Food to Energy
16. T 8/1                     Midterm Examination II on Chapters 21 - 25 and Lecture on Chapter 27: Specific Catabolic Pathways: Carbohydrate, Lipid, and Protein Metabolism
17. W 8/2                    Chapter 27: Specific Catabolic Pathways: Carbohydrate, Lipid, and Protein Metabolism
18. Th 8/3                    Chapter 28: Biosynthetic Pathways
19. M 8/7                    Chapter 29: Nutrition
20. T 8/8                    Chapter 30: Immunochemistry
21. W 8/9                    Chapter 30: Immunochemistry
22. Th 6/22                    Chapter 31: Body Fluids
23. M 8/14                    Review For Final Examination

