

Temple University

Department of Chemistry

Instructor: Dr. Timothy J. Shea; office CG 7A

Introduction to Chemistry

(Chemistry C061)

Office hours: M: 9:30-10:30 AM, F: 9:30-10:30 AM, T: 5:15-7:15 PM or by appointment.

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AMBLER CAMPUS

Fall, 2005-Day

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

Chemistry C061 is the first semester of the lecture and recitation portions of Introduction to Chemistry. Chemistry C063 is the first semester of Introduction to Chemistry Laboratory. These courses are designed primarily for non-science majors and those planning degrees 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 be used as a prerequisite for Chemistry 121(Organic Chemistry). If you expect to Science and Technology courses in chemistry (100 level or above), you should take the 71-74 sequence (General Chemistry) rather than this course.

A student will not be permitted to enroll in Chemistry 63 unless that student also enrolls in Chemistry 61, or has previously completed Chemistry 61 or its equivalent with a passing grade.

CLASS MEETINGS: Lectures: M,W,F: 8:40-9:30 AM, Recitation: M: 10:40-11:30 AM or F: 10:40-11:30 AM; Laboratory: W: 9:40-12:30 PM or W: 1:40-4:30 PM

TEXTBOOK: Chemistry 61 (also used in Chemistry 62): Bettelheim, Frederick, A; Brown, W.H; March. J; Introduction to General, Organic and Biochemistry Chemistry, 7th Ed. Thomson./Brooks/Cole United States, 2004.

Chemistry 63 (also used in Chemistry 64): J. R. Holum, Laboratory Manual for Fundamentals of General, Organic and Biological Chemistry, 6th Ed. Wiley, New York, 1998.

COURSE GOALS: This course is designed to be a two semester sequence that will provide fundamental knowledge in general, organic and biological chemistry. It is hoped after completing this sequence, students will be able to examine their world from a chemical perspective, solve basic chemical questions using a calculator and think scientifically.

DISABILITY SERVICES: See Disability Resources and Services Information: West Hall 104

Tutoring: Ambler Bright Hall 201; Main Campus-Math and Sciences Resources Center-Curtis Hall 17

GRADING: Grades will be based on a maximum 1000 point total for Chemistry 61. The grade breakdowns are given below

<u>Chemistry 61</u>
Midterm = 300 pts
Rec. Quizzes = 400 pts
Final Exam = 300 pts
Total Maximum = 1000 pts

Absences: Though attendance is not taken, excessive unexcused absences from any part of Chemistry 61 or 63 can result in a student receiving an F as a final grade. It is the responsibility of the student to make sure that his/her absence is recorded as excused if such is the case.

Withdrawals: Students may drop from the course anytime up to and including Friday September 12th. The last day to withdraw is October 31. A student who withdraws from Chemistry 61 may or may not withdraw from Chemistry 63. Those who elect to withdraw from Chemistry 63 must check out of laboratory.

Incompletes: The grade of I (incomplete) will only be considered in cases where at least 60% of the term's work has already been completed and there is a valid excuse (medical or otherwise) for not completing the missing work. Fear on earning a poor grade is not considered a valid excuse. If you do have a valid excuse, which prevents you from doing all of your work, notify Dr. Shea as soon as possible (phone 215-283-1498). Do not wait until the last minute (when it will be too late for him to help you).

Electronic Calculators: Although the types of calculations employed in Chemistry 61 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 examinations. Calculator failure will not be accepted as an excuse for poor examination performance. The sharing of calculators during exams is prohibited.

CHEMISTRY 61**LECTURE**

There will be two lecture examinations in Chemistry 61. The first exam will be given on the week of October 24 on Chapters 1-6 while the second exam will be given during finals week on Chapters 7-12(Monday December 12). These dates are subject to change. Each exam will count 30% of a student's grade. Exam material will be drawn from the text and lecture, so take good notes! Do not miss the midterm or final exam or you could fail the course.

RECITATION

The recitation will count as 40% of a student's grade. There will be five (5) recitation quizzes given during the following weeks. Dates are subject to change.

<u>Monday:</u>	<u>Friday:</u>	<u>Chapters to be covered:</u>
Sept. 12	Sept 9	1
Oct. 3	Sept 30	2-3
Oct. 17	Oct 14	4-5
Oct. 31	Oct 28	6-7
Nov. 14	Nov. 11	8-9

The sum of the four best quizzes will constitute the recitation grade. The lowest score will be dropped. There are no make-up exams or quizzes. Recitation quizzes should be taken in your assigned section.

CALENDAR-CHEM 61-63-FALL 2004-AMBLER-DAY

<u>WEEK:</u>	<u>LECTURE</u>
Aug 29	Ch 1-Matter, Energy and Measurement
Sept 5	Labor Day (Monday) Ch 2- Atoms
Sept 12	Ch 3- Chemical Bonds
Sept 19	Ch 3 cont; Ch 4 Chemical Reactions
Sept 26	Ch 4 cont; Ch 5 Gases, Liquids, and Solids
Oct 3	Ch 5 cont; Ch 6-Solutions and Colloids
Oct 10	Ch 6 cont; Ch 7-Reaction Rates etc.
Oct 17	Ch 7 cont; Ch 8-Acids and Bases
Oct 24	Ch 8 cont; Exam Ch 1-6
Oct 31	Ch 8 cont; Ch 9-Nuclear Chemistry
Nov 7	Ch 10-Organic Chemistry
Nov 14	Ch 11-Alkanes
Nov 25	No Lecture- Friday
Nov 28	Ch 11 cont; Ch 12- Alkenes
Dec 5	Ch 12- cont;